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SPACE SURVEILLANCE SOFTWARE SUPPORT. VOLUME 1, PART 1, BOOK 2. --ETC(U)

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> SPACE SURVEILLANCE SOFTWARE SUPPORT Computer Program Documentation

PRC Information Sciences Company



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Volume 1, Part 1, Book 2. UNCLASSIFIED ASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS BEFORE COMPLETING FORM REPORT DOCUMENTATION PAGE GOVT ACCESSION NO. NT'S CATALOG NUMBER RADC+TR-76-261- Vol-1=Pt-1 E OF REPORT & PERIOD COVERED SPACE SURVEILLANCE SOFTWARE SUPPORT. Final Mechnical Report. Computer Program Documentation. pri 1975 - Jula 1976 ONTRACT OR GRANT NUMBER(+) AUTHOR(s) F30602-75-C-0167 P. Richard Conti PERFORMING ORGANIZATION NAME AND ADDRESS PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNLI NUMBERS PRC Information Sciences Company 62702F 8606 Turin Road 65121205 Rome NY 13440 11. CONTROLLING OFFICE NAME AND ADDRESS 12. REPORT DATE Rome Air Development Center (OCSA) Oct 1976 Griffiss AFB NY 13441 438 15. SECURITY CLASS, (of this report) NAME & ADDRESS(If different from Controlling Office) Same UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES RADC Project Engineer: John C. Cleary (OCSA) 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Trajectory Software Radar Cross Section Orbit Classifiers 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The objective of this effort was to modify the RADC trajectory program, orbit program and various radar cross section programs were modified to run on the RADC HIS 6180 computer under the GCOS system software. The RADC trajectory program was modified to include the capability of processing multiple (20)

radar sites and multiple (20) targets in the program so that various radar parameters could be determined. This type of information is essential in performing radar coverage analyses for systems such as COBRA TALON, SEEK SAIL COBRA DANE and COBRA JUDY. This portion of the effort is documented in Vol 1

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Line 20 (continued)

Vol 11 documents a procedure for punching eards in ASCII format and reading the data onto a HP cassette for subsequent plotting with an HP9820 calculator system.

Vol 711 documents some Radar Signature and Radar Scattering computer programs. A three dimensional plot program contained in this volume has been incorporated into the Interactive Radar Simulator for plotting three dimensional antenna patterns and cross section aspect angle histories.

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#### ABSTRACT

The objective of the effort documented herein was to provide computer programming support for Space Surveillance system analysis. The two primary tasks of the effort were to complete the modification of the RADC Trajectory Program and to modify various radar cross-section and other computer programs so that they could be accessed from the interactive system for the RADC Radar Simulator. The documentation is organized as follows:

Volume I, Part 1, Book 1 - Project Summary and Computer Program Documentation (Chapters I-III of Volume I, Part 1)

Volume I, Part 1, Book 2 - Computer Program Documentation (Chapter IV)

Volume I, Part 1, Book 3 - Computer Program Documentation (Chapters V-VI and Appendices A-E)

Volume I, Part 2 - RADC Trajectory Program - Numerical/ Analytical Data

Volume II - Generalized Data Entry and Plot Program

Volume III - Radar Signature and Radar Scattering Principles
Investigation Software

# IV. Description of Radar Cross Section Computer Programs

# A. Introduction

This section describes nine (9) simulation programs which have been written in FORTRAN Y to execute under the Honeywell 6000 GCOS operating system. These computer programs determine radar cross section for the following targets:

- 1. Cone
- 2. Cone-Cylinder
- 3. Cylinder
- 4. Cylinder-Flare
- 5. Frustum
- 6. Frustum-Cylinder
- 7. Hemisphere-Cylinder
- 8. Missile
- 9. Dihedral Corner Reflector

In obtaining cross section, the user can vary frequency, polarization, and bistatic angle as a function of aspect angle.

Programs 1-7 were developed under Contract AF30602-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc. (now called CALSPAN) under subcontract to the Fort Worth Division of General Dynamics. The theory for these programs is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969. Programs 8 and 9 were also developed by Cornell Labs under a different contract. Related information can be found in CAL Report No. ER/RIS-10, "Radar Scattering Analysis", August 1966, and the documentation for Contract AFAL-TR-67-343, "Investigation of Scattering Center Theory," December 1967. All the programs have been put in the appropriate timesharing CARDIN format by PRC/ISC so that they are executable by means of the RADC Interactive Radar Simulator. Common subroutines needed by

two or more of the programs have been stored in files, separate from the program files, themselves, and accessible by the various programs.

# B. CONE Program

#### 1. Introduction

The CONE program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the Program GDT05 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

# 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the CONE program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular cylinder.

# 3. Computer Program Operating Environment

- a. Computer
  HIS 6000
- b. Source Language
  FORTRAN Y under GCOS
- c. Memory Requirement

  23K words
- d. Typical Processing Time Required

  0.0100 hours (36 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07, 08, 09, 10)

# f. Subroutines Used

Subroutines obtained from SXSA subroutine file:

UPDAT

BESS

GAM

PLTGDT

Subroutines obtained from SXSB subroutine file:

TAN

# 4. Inputs

The inputs which are needed for the executing of the CONE program are as follows:

A2 - Radius of cone (inches)

H - Half height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

BET - Azimuth bistatic angle (degrees)

#### Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

```
Variable 1 name = (value),
Variable 2 name = (value),

...

Variable n name = (value) $
```

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the angle at which the target is viewed (BISTATIC),
- o vary the size of the cone.

#### 5. Output

Output from the CONE program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is,

file 07 contains the data of SV,

file 08 contains the data of SH,

file 09 contains the data of THETAV, and

file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

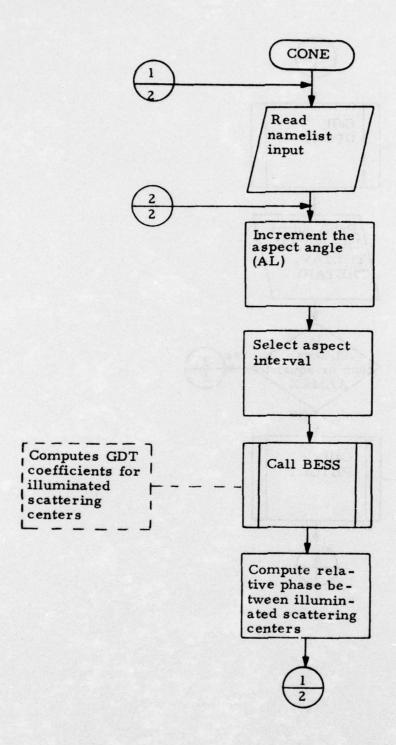


Figure IV-1 Logic Flow Diagram for CONE Program (Page 1 of 2)
IV-7

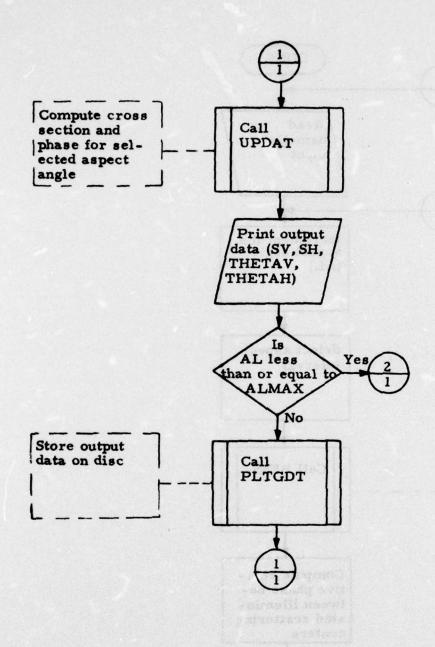


Figure IV-1 Logic Flow Diagram for CONE Program (Page 2 of 2)

A SANCHARA

```
CLEARY, NEUFFER , 65121104RADC
5
       IDENT
       USERID CLEARYSTHREE
$
5
      LOWLOAD
       OPTION FORTRAM
$
                CLEARY / OCONE
5
       SELECT
       SELECT
               CLEARY / ØXSA
$
       SELECT CLEARY / 0XSB
$
5
       EXECUTE
       LIMITS 05,23K,, 10K
5
       PRMFL
                07, W. L. CLEARY / STORE!
5
       PRMFL
                08, W. L. CLEARY/STØRE2
       DRITEL
                09, 1, L, CLEARY/STØRE3
5
                10, W. L. CLEARY/STØRE4
3
       PRMFL
$
       DATA
                05
 SINPUT
  A2=3.16,
 H=7.907,
  CLAM=1.9672,
  DELAL=C.1,
  ALMIN=0.0.
  ALMAX=180.0,
  AL=0.0,
  BET=0.0 $
       ENDJØB
```

NEUFF	er Er		9/9/7		ME	
NEUFF	ER					
RADC ENGIN	ER			5   1	000	
			TELEPHO			
CLEAR	EER	*	4753			
CLEAR			TELEPHONE SYMBOL			
	Y	)T	x4765	C	CSA	
	TA	PES AS	SIGNED			
REEL NO-	WRITE	READ	DEN.	7	ITLE	
NONE						
NONE			++			
				i de		
				ole h		
		—	1	•	10.0	
	A 70.2			, John	12.0	
				457		
			-			
			68		AC	
PERIPHERAL READER DISC. # 0 CORE SIZE	F LINKS		PRINTE	FLIN		
TOTAL RUN		05 05	ESTIMATE			
TOTAL RUN				101	,	
NO. OF BINA		-	PECTED No. OF CO	MDEC	KS	
			1E		616	
	MC		TAPE [	The state of the state of	-	
FROM:	TO:		MODE BCD BINAR		O. OF FIL	
			OR INSTR	UCTIO	NS	

HIS-6000 Batch Submittal Form

IV-10

Source Listing of the CONE Program

MARTINE CONTRACTOR THE STATE AS

SATOR DE LA SACIONA DE LA SACI

544

```
PROGRAM CONE AZIMUTH BISTATIC (SCONE)

COMMON/NAM/YY1(20:0); YY2(2:00), YY3(2000), YY4(2000), XX(2000), 11

COMPLEX EJR1, EJR5, EJR6, EJR7, EJR9, EJR11, EJR12, EJR13; EJR14, EJR15;

X ZV, ZVC, ZH, ZMC, RMSV, RMSH, RNSV, RNSH, SSV, SSH, EJR16, EJR17, EJPR
                                                                                                 00001000
                                                                                                 00001010
                                                                                                 00001020
                                                                                                 00001030
        NAMELIST/INPUT/A2. H. CLAM, DELAL, ALMIN, ALMAX, AL, BET
                                                                                                 00001040
 1001 FORMAT(1H ,7E15.8)
                                                                                                 00001050
2000 FORMATCINI, ////4 X, INPUTS - CONE AZIMUTH BISTATIC PROGRAM, -////29X, RADIJS OF CONE IN INCHES (A2) # ', F14.7,
                                                                                                 00001060
                                                                                                 00001070
      00001080
                                                                                                 00001090
                                                                                                 00001100
                                                                                                 00001110
                                                                                                 00001120
                                                                                                 00001130
                                                                                                 00001140
 2001 FORMAT(3x, 'AL', 3x, 'SV(DBSM)', 1x, 'SH(DBSM)', 2x,
      OITHETAV', 2x, THETAH',//)
                                                                                                 00001160
 2002 FORMAT(1x.F7.2,1P2E9.2,0P2F8.3)
                                                                                                 00001170
                                                                                                 00001180
                                                                                                 00001190
                                                                                                 00001200
            INPUT - NAMELIST - INPUT
6
                                                                                                 00001210
                                                                                                 00001220
            H = HALF HEIGHT OF CONE
CLAM = WAVELENGTH ( INCHES)
                                                                                                 00001230
                                                                                                 00001240
       DELAL INCREMENT IN ASPECT ANGLE (DEGREES)
ALMIN = MINIMUM ASPECT ANGLE (DEGREES)
ALMAX = MAXIMUM ASPECT ANGLE (DEGREES)
                                                                                                 00001250
                                                                                                 00001260
                                                                                                 00001270
         AL = ASPECT ANGLE (DEGREES)
BET = BISTATIC ANGLE (DEGREES)
                                                                                                 00001280
                                                                                                 00001290
                                                                                                 00001300
     I READ(US, INPUT, END=999)
        WRITE(06.2000) AZ.H.CLAM.DELAL.ALMIN.ALMAX.AL.BET
                                                                                                 00001310
        11 . 0
                                                                                                 00001320
        THETA=0.
                                                                                                 00001330
        RMV2=0.
                                                                                                 00001340
        RHH2=0.
                                                                                                 00001350
        RELC1 . . 02540. 7254
                                                                                                 00001360
        P1=3.14159265
                                                                                                 00001370
        49 . V5/(5'+H)
                                                                                                   JC01380
        X = ATAN(A9)
                                                                                                   JC01390
        DTR = P1/180.
                                                                                                 00001400
        RTD = 180./PI
                                                                                                 00001410
        DELAL " DELAL-DTR
                                                                                                 03001420
                                                                                                 00001430
        ALMAX = ALMAX-DTR
                                                                                                  00001440
       AL = AL + DTR
ALO=AL
BET = BET + DTR
CK = (2.+PI+COS(3ET/2.))/CLAH
                                                                                                 00001450
                                                                                                 00001460
                                                                                                 00001470
                                                                                                 00001480
        CAL1=PI-X-BET/2.
                                                                                                 00001490
        CAL2=-X+8ET/2.
CAL4=P1/2. + BET/2.
                                                                                                 00001500
                                                                                                 00001510
```

```
CALS=X - BET/2.
                                                                                                                    00001520
                                                                                                                     00001530
     CN2=1.5+x/PI 00001540
C1 = PI/2. 00001550
C2 = PI/4. 00001560
C3 = 4.**CK**SQRT(2.**PI) 00001570
C4 = 2.**CK**A2 00001580
C5 = 2.**CK**A2 00001590
C6 = COS(PI/CN1) 00001600
C7 = SIN(PI/CN1) 00001610
     CS = COS(PI/CN2)
C9 = SIN(PI/CN2)
                                                                                                                       00001620
                                                                                                                        00001630
CQ = SIN(P[/CN2) 00001630

C11 = (1./(CB-CUS(BET/CN2))) 00001640

CANSC1 = 2,44283784**COS(BET/2.) 00001650

CANSC2 = 2,44283784**COS(BET/2.) 00001660

GO TO 95 00001670

10 If = II+1 00001680

C13 = C4**SIN(A_) 00001690
10 IF = II-1

C13 = C4-S[N(A_)

C14 = C5-COS(A_)

C50 = C4-COS(A_)

IF (AL. LT, x) GO TO 71

(F (AL-CAL1) 11,11,12

11 C15 = COS((2.-(PI-X-AL))/CN1)

RM1 = C2-C14
                                                                                                                         00001690
                                                                                                                         00001700
                                                                                                               00001720
                                                                                  00001730
00001740
00001750
                                                                                                                         00001730
     CSRH1 = COS(RH1)
SNRH1 = SIN(RH1)
                                                                                                                        00001760
                                                                                                                          00001770
                                                                                                                         00001780
      EUR1 = CMPLX(CSRH1, SNRH1)
     RMSV = (C7/(C3-CV1))+(1.7(C6-C15))+EJR1
                                                                                                                         00001790
60 TO 13
12 RMSV = 0.
13 COVTINUE
                                                                                                                         00001800
                                                                                                                          00001810
     IF (C13.GE, CANSC1) GO TO 2:

IF (AL. GT, C1) GO TO 20:

C17 = (C9/CN2) * S2RT (A2/CK)

CCA2S2 = CK*A2
                                                                                             00001930
03001840
00001950
                                                                                                                         00001830
                                                                              00001850
00001860
00001870
00001880
00001890
00001910
00001920
00001930
     IF (AL. EQ. 0.) GO TO 35
CGA251 = 1./SIV(AL)
CCA2S = CCA2S1

IF ( CCA2S2 - CCA2S1) 35.35,45

35 CEA29 = CCA2S2

45 CONTINUE
     C20 = SORT(CCA25)

C21 = (1./(C8-COS((3.*PI-2.*AL)/CN2)))

C23 = (1./(C8-COS((3.*PI+2.*AL)/CN2)))
                                                                            00001940
00001950
00001960
00001970
00001980
      R2SV = C17+C2 -(C21-C11)
     R2SH = C17.C20.(C21.C11)
R4SV = C17.C2..(C23.C11)
                                                                                                  00001990
     R45H = C17+C27+(C23+C11)
                                                                                                                         00002000
     RM6 = -C13+C2
RH7 = -RH6
                                                                                                                         00002010
                                                                                                                         00002020
      CSRHS = COS(RHS)
                                                                                                                         00002030
```

```
SNRHS = SIN(RH5)
C$RH6 = COS(RH6)
SNRH6 = SIN(RH6)
C$RH7 = COS(RH7)
SNRH7 = SIN(RH7)
EJR5 = CMPLX(C$RH5, SNRH5)
EJR6 = CMPLX(C$RH5, SNRH6)
EJR7 = CMPLX(C$RH6, SNRH6)
EJR7 = CMPLX(C$RH6, SNRH6)
OU002100
EJR7 = CMPLX(C$RH6, SNRH6)
RNSY = R2SV=EJR5=EJR6+R4SV=EJR5=EJR7
RNSH = R2SV=EJR5=EJR6+R4SV=EJR5=EJR7
OU002120
RNSH = R2SV+ENSV
D0002130
ZV = RMSV+RNSV
D0002140
ZH = RMSV +RNSH
OU002150
GO TO 50
20 If (C13, LE, CANSC2) GO TO 40
C25 = (C9=SQRT(AZ/(SIN(AL)+CK)))/CN2
C27 = 1./(C8-CJS((3,*PI-2,*AL)/CN2))
IF( AL, LE, X) GJ TO 101
102 C29 = 1./(C8-CJS((3,*PI+2,*AL)/CN2))
GO TO 103
00002220
101 C29 = 1./(C8-CJS((3,*PI+2,*AL)/CN2))
  101 C29 = 1./(C8-C9S((3,*PI+2,*AL)/CN2))
103 CONTINUE
                                                                                                                                                                    00002230
           CON INGE

RS2SV = C25*(C27-C11)

RS2SW = C25*(C29-C11)

RS4SV = C25*(C29-C11)

RS4SW = C25*(C29+C11)

IF(AL-CAL2) 85,175,175
                                                                                                                                                            00002270
                                                                                                                                                                    00002280
    85 R$25V = J.
                                                                                                                                                                     00002300
                                                                                                                                                                     00002310
  175 IF(AL-CAL5) 135.135.125
125 IF(AL-CAL4) 145.135.135
                                                                                                                                                                   00002320
                                                                                                                                                                   00002330
   145 R$45V = J.
            R$454 = U.
                                                                                                                                                                     00002350
           R84SH = 0.

CONTINUE

RM9 = -(C13-C14)+C2

RH11 = (C13+C14)-C2

CSRH9 = COS(RH9)

SORH0 = SIN(RH9)

CSRH11 = COS(RH11)

SORH11 = SIN(RH11)

EJR9 = CMPLX(CSRH9, SNRH9)

EJR11 = CMPLX(CSRH11, SNRH11)

ZV = RS2SV+EJR9+RS4SV+EJR11+RMSV

ZM = RS2SH+EJR9+RS4SH+EJR11+RMSV

GO TO 50
   135 CONTINUE
                                                                                                                                                                     00002360
                                                                                                                                                                     00002370
                                                                                                                                                                     00002380
                                                                                                                                                                    00002390
                                                                                                                                                                    00002400
                                                                                                                                                                   00002410
                                                                                                                                                                     00002420
                                                                                                                                                   00002430
                                                                                                                                                      00002440
00002450
00002460
    ZM = R3C3H0EJR7 (373H0EJR12 RHO)

GO TO 50

40 C30 = (C9/CN2)*S3RT(A2/CK)

CCAUS2 = CK*A2

IF (AL. EQ. PI) GO TO 155

CCAUS1 = 1,/SIN(AL)
                                                                                                                                                            00002470
                                                                                                                                                                     00002480
                                                                                                                                                                     00002490
                                                                                                                                                                     00002500
                                                                                                                                                                     00002510
            CCAUS = CCAUS1
1F(CCAUS2-CCAUS1) 155,155,165
                                                                                                                                                                    00002520
                                                                                                                                                                     00002530
   155 CCAUS = CCAUSE
                                                                                                                                                                     00002540
   165 CONTINUE
                                                                                                                                                                     00002550
```

```
C31 - SORT(CCAJS)
                                                                                             00002560
      C32 . C4.A2.SQRT(PI)
                                                                                              00002570
      ORDER= 1
                                                                                             00002580
      CALL BESS(ORDER, C13, BS)
                                                                                             00002590
     C33 = 85
RH12 = -C1
                                                                                             00002600
                                                                                             00002610
      RW13 * -C13+C2
                                                                                             00002620
      RH14 = -RH13
                                                                                              00002630
     RH15 = C14
                                                                                             00002640
 RM15 = C14

CSRH12 = COS(R+12)

SNRH12 = S[N(R+12)

CSRH13 = COS(R+13)

SNRH13 = SIN(R+13)

CSRH14 = COS(R+14)

SNRH14 = S[N(R+14)

CSRH15 = COS(R+15)

SNRH15 = SIN(R+15)
                                                                                             00002650
                                                                                             00002660
                                    00002650
00002690
00002700
00002710
00002720
5NKH15 = SIN(RH15)

EJR12 = CMPLX(CSRH12, SNRH12)

EJR13 = CMPLX(CSRH13, SNRH13)

EJR14 = CMPLX(CSRH14, SNRH14)

EJR15 = CMPLX(CSRH15, SNRH15)

CBXOX2 = 0.5
                                                                                            00002720
                                                                                    00002730
00002740
00002750
                                                                                        00002760
      CBX0X2 = 0,5
      IF (AL. EQ. PI) 30 TO 185
                                                                                        00002780
CBXQX2 = C33/C13

185 CONTINUE

ZV = C32*CBXQX2*EJR12*EJR15-C30*C31*C11*EJR15*(EJR13*EJR14)

ZH = C32*CBXQX2*EJR12*EJR15*C30*C31*C11*EJR15*(EJR13*EJR14)

GO TO 50

71 C60 = 2.*SQRT(PI)*A2*C9/CN2
                                                                                        00002790
                                                                                             00002800
                                                                                             00002810
                                                                                             00002820
                                                                                             00002830
                                                                                             00002840
      C61 = (2. SIN(3. PI/CN2) TAN(AL))/CN2
                                                                                             00002850
      C62 = 1./(C8-C3S(3.+P1/CN2))
                                                                                             00002860
      DRDER = J.
                                                                                             00002870
                                                                                             00002880
     CALL BESS(ORDER, C13, RS)
C63 = 95
                                                                                             00002890
      DRDER = 1.
                                                                                             00002900
     CALL BESSIORDER, C13, HS)
                                                                                             00002910
      C64 = 85
                                                                                             00002920
ORDER = 2.
                                                                                             00002930
      CALL BESS(ORDER, C13, HS)
                                                                                             00002940
     C65 . 85
                                                                                             00002950
      RH16 = C1
                                                                                             00002960
      CSRH16 = COS(R+16)
                                                                                             00002970
      SNRH16 = SIN(R416)
                                                                                             00002980
      EJR16 = CMPLX(CSRH16, SNRH16)
                                                                                             00002990
      RH17 = -C14
                                                                                             00003000
      CSRH17 = COS(R417)
                                                                                             00003010
      SNRH17 = SIN(R417)
                                                                                             00003020
      EJR17 = CMPLX(CSRH17.SNRH17)
                                                                                             00003030
      ZV = (C6)+(C62+C63-C61+(C62+2)+C64+EJR16+C11+C65))+EJR17
                                                                                             00003040
      ZH = (C6:0+(C62*C63-C61*(C62**2)*C64*EJR16-C11*C65))*EJR17
                                                                                             00003050
      GO TO 50
                                                                                             00003060
  50 RHPR = -C14
                                                                                              00003070
```

#### 4063T 01 09-29-75 16.342

CSPR = COS(RHPR)	00003
SAPR = SIN(RHPR)	00003
BUPR = CHPLX(CSPR, SNPR)	00003
ZV = ZV-EJPR	00003 00003
	00003
EEV=ZVC = CONJG(ZV)	00003
INC-CONJO(ZH)	000031
SSH-SH-ZHC	00003
RMV1=ATAN2(AIMAG(ZV), REAL(ZV))	00003
CALL UPDAT(RHV1, RHV2, PI, THETAV)	00003
RMH1=ATAN2(AIMAG(ZH), REAL(ZH))	00003
CALL UPDAT (RHH1, RHH2, PI, THETAH)	00003
REALSV * REAL(SSV)	00003
BRALEU - BRAL (BOLL)	00003
RELSV1=REALSV=RELC1	00003
RELSV2 = 10. ALOG10(RELSV1)	00003
RELSH1 = REALS -RELC1	00003
RELSH2 = 10. ALOG10 (RELSH1)	00003
AL=R?D+AL	00003
WRITE(6,2002) AL, RELSV2. RELSH2, THETAV. THET	AH 000033
ww1/.11 - nc/.cu2	00003
772(11) • RELS42	00003
YY3(11) . THETAV	00003
YY4(TT) . THETAH	00003
	00003
AL - DTR-AL	00003
AINDX=II	00003
AL*AINDX.DELAL +ALO	00003
IF (AL-ALMAX) 10.10.200	00003:
200 CALL PLYOUT	00003
00 TO 1	00003
95 CONTINUE	00003
WRITE(6,2001)	00003
THETAV = 0.	00003
PUETAH = 0.	00003
00 70 10	00003
999 CONTINUE	00003
STOP	00003
END	00003
	was a first was also be a second as to talk the
Objects	
and the second s	

Sample Input for the CONE Program as Output

#### INPUTS - COME AZINUTH BISTATIC PROGRAM

RADIUS OF COME IN INCHES (A2) = 3.1600000

HALF REIGHT OF COME IN INCHES (N) # 7.9070000

WAVE LENGTH IN INCHES (CLAN) . 1,9672000

INCREMENT IN ASPECT ANGLE IN DESERTS (DELAL) = 0.1000000

HINIHUM ASPECT ANGLE IN DEGREES (ALHIN) = 0.

HAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 180,0000000

ASPECT ANGLE IN DEGREES (AL) = 0;

BISTATIC ANGLE IN DEGREES (BET) = 0.

Sample Output for the CONE Program

The state of the s

Yr	SVIDBS	M) SH(BBBM)	THETAV	THETAH
0.	-1.85E	01-1.058 01	2.654	2.654
0.20	-1.86E	01-1.862 01	2.654	2,654
	-1.862	01-1.868 01	2.655	2,655
	-1.86E	01-1.069 01	2.656	2.656
0.50	-1.86E	01-1.878 01	2.657	2.657
0.70	-1.86E	01-1.872 01	2.661	2.659
0.30	-1.86E	01-1.888 01	2.663	2.003
0.00	-1,87E	01-1.89 01	2,665	2.665
1.00	-1,87E	01-1.908 01	2.668	2.668
1.20	-1,87E	01-1.918 01	2,675	2.675
1.30	-1,88E	01-1.928 01	2.678	2.678
1.00	-1.88E	01-1.94 01	2,682	2,682 2,686 2,691
1.60	-1,89E	01-1,952 01	2,687	2,686
1.70	-1.89E	01-1.988 01	2,696	2,696
1.00	-1.90E	01-1,998 01	2.701	2,696
1,90	-1,90E	01-2,018 01	2,707	2.706
	-1.922	01-2.038 01 01-2.048 01	2,712	2,712 2,718 2,724
	1.922	01-2.062 01	2.725	2.724
2,40	-1.93E	01-2.09E 01	2,731	2,730
	-1.94E	01-2.112 01	2.738	2.737
2.50	-1,94E	01-2.132 01	2.745	2,744
2.70	-1,96E	01-2.182 01	2.753 2.761 2.769	2,751
2.80	-1.96E	01-2.218 01	2,769	2.101
2,90	-1.97E	01-2.282 01	2,777	2,775
3.10	-1.99E	01=2,28# 01	2,795	2,792
3.20	-2.00E	01-2.358 01	7.804	2.800
3.30	-2,01E	01-2,398 01	2,813 2,823	2,809 2,818
3.60	-2.02E	01-2.432 01	2,823	2.818
3.60	-2.04E	01-2.522 01	2.844	2.828
3.70	-2.05E	01-2.572 01	2.854	2.846
3,50	-2.06E	01-2,628 01	2,865	2.830
	-2.08E	01-2.682 01	2.877	2.866
4.10	-2.10E	01-2.822 01	2.900	2.885
4.20	-2.11E	01-2.892 01	2.912	2.894
	-2.12E	01-2.98E 01 01-3.07E 01	2.925	2.903
4.50	-2.15E	01-3.182 01	2.951	2.918
4.60	-2.16E	01-3.302 61	2.964	2.923
	-2.48E	01-3.442 01	2.978	2.926
	-2.19E	01-3.612 01	3.006	2.923
5.00	-2.222	01-4.112 01	3.020	2.882
5.10	-2.24E	01-4.512 01	3.035	2.796
5.20	-2.26E	01-5.232 01	3,050	2.436
5.40	-2.27E	01-5.382 01	3.081	0.262
5,50	-2,31E	01-4.162 01	3.097	0.161
5.60	-2.33E	01-3.878 01	3.113	0.127

```
0.117
5.70-2.35E 01-3.66# 01
                            3.130
5.80-2.37E 01-3.48E 01
                            3.147
                                    0.116
5.00-2.39E 01-3.34E 01
                            3.164
                                    0.122
                            3, 181
                                    0.131
6.00-2.41E 01-3.22E 01
                                    0.143
6. 10-2.43E 01-3.11E 01
                            3.199
                                    0.156
 6.20-2.45E 01-3.02E 01
                            3.217
                                    0.171
6.30-2.47E 01-2.94E 01
                            3.235
6.40-2.49E 01-2.86E 01
                            3.254
                                    0.187
                                    0.203
  50-2.52E 01-2.79E 01
                            3.272
                                    0.221
  60-2.54E 01-2.73E 01
                            3,292
6.70-2.57E 01-2.68E 01
                            3.311
                                    0.239
6.80-2.59E 01-2.62E 01
                                    0.257
                            3,331
 6.90-2.62E 01-2.58E 01
                                    0.276
                            3.351
 7.00-2.65E 01-2.53E 01
                                    0.296
                            3.371
 7.10-2.67E 01-2.49E 01
                            3.392
                                    0.316
 7.20-2.70E 01-2.45E . 1
                            3.413
                                    0.337
 7.30-2.73E 01-2.41E 01
                                    0.358
                            3.434
                                    0,379
 7.40-2.76E 01-2.38E 01
                            3.455
  50-2.79E 01-2.35E 01
                            3.477
                                    0.401
                                    0.423
  60-2.82E 01-2.32# 01
                            3.499
   70-2.86E 01-2.29E 01
                                    0.445
                            3.521
                                    0.468
  80-2.89E 01-2.27E U1
                            3.544
                            3.567
                                    0.491
 7.90-2.93E 01-2.24E 01
                            3.590
                                    0.515
 8.00-2.96E 01-2.22E .1
                                    0.539
 8.10-3.00E 01-2.20E 01
                            3.613
 8.20-3.04E 01-2.18E 01
                            3.637
                                    0.563
 8.30-3.08E 01-2.16E 01
                            3.661
                                    0.588
 8.40-3.12E 01-2.14E 01
                            3.685
                                    0.613
8.50-3.17E 01-2.13E 01
                            3.710
                                    0.638
 8.60-3.21E 01-2.11E 01
                                    0.663
                            3.734
 8.70-3.26E 01-2.10E 01
                                    0.689
                            3.759
                                    0.715
                            3.785
 8.80-3.31E 01-2.09E 01
                                    0.742
 8.90-3.36E 01-2.08E 01
                            3.810
                                    0.769
 9.00-3.42E 01-2.07E .1
                            3.836
                                    0.796
9.10-3.47E 01-2.06E 01
                            3.862
                            3.889
                                    0.823
9.20-3.53E 01-2.05E (1
                                    0.851
 9.30-3.60E 01-2.04E 01
                            3.915
9.40-3.67E 01-2.04E 01
                            3.942
                                    0.879
9.50-3.74E 01-2.03E 01
                                    0.907
                            3.969
9.60-3.82E 01-2.03E .1
                            3.996
                                    0.936
9.70-3.90E 01-2.02E 01
                                    0.965
                            4.024
                                    0.994
9.80-3.99E (1-2.02E 01
                            4.051
9.90-4.09E 01-2.02E 01
                            4.079
                                    1.023
                           4.107
                                    1.053
10.00-4.20E C1-2.02E 1
10.10-4.32E 01-2.02E 01
                                    1.083
                                    1.114
                            4.162
10.20-4.46E 01-2.02E .1
                                    1.144
10.30-4.63E 01-2.02E 01
                            4.188
                                    1, 175
10.40-4.82E 01-2.02E 01
                            4.214
                                    1.207
                           4.237
10.50-5.07E 01-2.03E 01
                            4.253
                                    1,238
10.60-5.41E 01-2.03E .1
10.70-5.95E 01-2.04E 01
                                    1.270
                            4.245
                                    1.302
10.80-7.43E 01-2.04E 1
                            3.877
                            1.378
10.90-6.31E 01-2.05E 01
                                    1.335
                                    1.368
                            1.341
11.00-5.63E 01-2.06E
                                    1.401
11.10-5.26E 01-2.07E 01
                            1.353
                                    1.434
                            1.375
11.20-5.00E 01-2.08E (1
                                    1.467
                            1.403
11.30-4.81E 01-2.09E 01
                                   -0.056
                            0.116
11.40-5.43E 01-2.64E 1
                                   -0'.091 IV -21
11.50-5.44E 01-2.64E 01
                            0.070
```

44. Zo 'E' him	07-9 644				
11.60-5.44E	01-2.642		0.023	+0.126 +0.161 40.196 +0.231	
11.00-5.452			0.075	40.196	
11.00-5.45E	01-2.65	01 -	0.125	+0.231	
12.00-5.46E	01-2.662	61 -	0.477	+0.266	
12.10-5.46E	01-2.66		0.228	-0.301	
12.20-5.462	01=2.662	0	0.281	+0.336	
12.80-5.46E	01-2.67	01 -	0.334	0.372	
12.50-5.45E	01-2.67	01 -	0.440	-0.407	
12.40-5.45E	01-2,682	01 -	0.493	40.477	
12.70-5.44E	01-2.68#	01 -	0.546	-0.512	
12. 0-5.43E	01-2.682		0.598	-0.547	
12.90-5.42E	01-2.692	01 -	0.649	-0.583	
13.00-5.41E	01-2.692	01 -	0.700	0.618	
13.20-5.38E	01-2.692		0.799	40.688	
13.30-5.37E	01-2.702		0.846	.0,723	
13.40-5.35E	01-2.70		0.892	40.758	
13.50-5.33E	01-2.70	01 -	0.937	-0.793	
13.50-5.32E 13.70-5.30E 13.50-5.28E	01-2.70	01 -	0.981	+0.827 -0.862 +0.897	
13,70-5,302	01-2.71	01 -	1.023	70,002	
13.00-5,26E	01-2.71	01 -	1.064	-0,932	
14.00-5.25E	01-2.71	01 -	1,142	-0.966	-
14.10-5.23E	01=2.715	01 -	1,179	-1,001	
14.20-5.21E	01-2.728	01 -	1.214	-1.035	
14.30-5.19E	01-2.72	01 -	1.249	÷1.070	
14.40-5, 18E			1,282	41.104	
14.50-5.16E			1.314	-1, 138 -1, 173	
14.70-5,132	01-2.72		1.375	-1,207	
14. 10-5. 11E	01-2.73	01 -	1.404	-1.241	
14.90-5.10E	01-2,738	01 -	1.432	+1.241 +1.274 +1.308	
15.00-5.08E	01-2.73	01 -	1.460	-1.308	
15.10-5.07E	01-2.732		1.486	-1.342	
15.20-5.05E 15.30-5.04E	01=2.73± 01=2.73±	01 -	1.512	-1.376 -1.409	
15.40-5.03E	01-2.74	34 -	1.562	-1.443	
15 . 50-5 . 02E	01-2.74	01 -	1.586	-1.476	
15.60-5.00E	01-2.741	61 -	1.610	-1.509	
15.70-4.99E	01-2.742		1.633	-1.543	
15.80-4.98E		01 -	1.656	-1.576	
15.90-4.98E	01-2.742	01 -	1.678	41.609	
16.10-4.96E	01-2.752	01 -	1.723	41.642 -1.675 -1.708 -1.741	
16.20-4.95E		01 -	1.744	-1.708	
16.30-4.95E	01-2.75E	01 -	1.766	-1.741	
16.40-4.94E		01 -	1.787	91.774	
16.50-4.94E		01 -	1.809	-1.806	
16.50-4.93E	01-2.76	01 -	1.831	-1.839 -1.872	
16.80-4.93E		01 -	1.874	-1.905	
16.90-4.93E	01-2.762	01 -	1.896	-1.937	
17.00-4.93E	01-2.77	01 -	1.918	+1.970	
17.10-4,93E	01-2,77	?1 :	1,940	-2,003	
17.20-4.93E 17.30-4.93E	01-2.778		1.963	·2.036	
17.40-4.93E	01-2.772		1.986	-2.101	
10-4.932					IV-22

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```
-2.034
-2.059
                                     -2', 134
-2', 167
17.50-4.93E 01-2.78E 01
17.50-4.94E 01-2.78E 01
17.70-4.942 01-2.782 01
                            -2.085
                                     -2.200
17.80-4.95E 01-2.79E 01
                            -2.111
                                     +2.233
17.90-4.95E 01-2.79E 01
                            -2.138
                                     -2.266
18.00-4.96E 01-2.79E U1
                                     +2.299
                            -2.166
                                     +2.332
18. 40-4.97E 01-2.79E 01
                            -2.195
18.20-4.97E 01-2.80E 01
                            -2.224
                                     42,365
                                     -2.399
18.40-4.99E 01-2.80E 01
                                     72.432
                            -2.287
18.50-5.00E 01-2.80E 01
                                     -2.466
                            -2.321
                                     +2.499
18.50-5.00E 01-2.81# 01
                            -2.355
18.70-5.01E 01-2.81E 07
                                     -2.533
                            -2.391
                                     +2',566
+2',600
+2',634
18.80-5.02E 01-2.81# 01
                            -2.428
18.90-5.03E 01-2.82E 01
                            -2.467
19.00-5.04E 01-2.82E U1
                            -2.506
19.40-5.04E 01-2.82E 01
                            -2.548
                                     -2.668
                                     -2.702
19.20-5.05E 01-2.828 01
                            -2.590
                                     -2.736
19.30-5.05E 01-2.83E 01
                            -2.634
                                     -2.770
19.80-5.06E 01-2.83E 01
                            -2.679
                            -2.725
                                     -2.805
19.50-5.06E 01-2.83E 04
19.50-5.06E 01-2.83E 01
                            -2.772
                                     42,839
19.70-5.07E 01-2.83E 05
                                     -2.873
                            -2.820
                                     72.908
72.942
72.976
19.80-5.07E 01-2.84E 61
                            -2.869
19.90-5.06E 01-2.84E 01
                            -2.918
20.00-5.06E 01-2.84E 01
                            -2.967
                                     -3.011
20.40-5.06E 01-2.84E 01
                            -3.016
20.20-5.05E 01-2.84E U1
                                     -3.045
                            -3.065
20.80-5.04E 01-2.84E 01
                            -3.114
                                     -3'.079
20.40-5.03E 01-2.84E 01
                                     -3.113
                            -3.162
20.50-5.02E 01-2.85E 01
                                     -3.148
-3.182
                            -3,209
                                    +3,182
+3,216
+3,250
20.60-5.01E 01-2.85E 01
                            -3.255
20.70-5.00E 01-2.85E 01
                            -3.300
20.80-4.98E 01-2.85E 01
                            -3.344
                                     -3.284
                            -3.386
20.90-4.97E 01-2.85E 01
21.00-4.95E 01-2.85E 01
                            -3.427
                                     -3.318
                                     -3.351
21.10-4.94E 01-2.85E 07
                            -3.466
                                     -3.385
-3.418
21.20-4.92E 01-2.85# 01
                            -3.505
21.30-4.912 01-2.852 01
                            -3.541
                                     +3,452
21.40-4.89E 01-2.85# 01
                            -3.576
                                     -3.485
21.50-4.87E 01-2.85E 01
                            -3.610
                            -3.642
21.50-4.86E 01-2.85E 01
                                     +3.518
                            -3.673
21.70-4.84E 01-2.85E 01
                                     43.550
21.80-4.83E 01-2.85E 01
                                     -3.583
                            -3.703
                            -3.732
                                     -3.616
-3.648
21.90-4.81E 01-2.85E 01
22.00-4.80E 01-2.85E 61
                            -3.759
                                    -3'.680
-3'.712
-3'.744
22.10-4.78E 01-2.85E 01
22.20-4.77E 01-2.85E 01
                            -3.786
                            -3.811
22.30-4.76E 01-2.85E 01
                            -3.836
                                     +3'.776
22.40-4.75E 01-2.85E 01
                            -3.860
22.50-4.73E 01-2.85E 01
                                     -3.808
                            -3.883
                                     43,839
22.60-4.72E 01-2.85E -1
                            -3.906
                                     -3.871
-3.902
22.70-4.71E 01-2.85E 01
                            -3.928
22.80-4.71E 01-2.85E (1
                            -3.950
22.90-4.70E 01-2.85E 01
23.00-4.69E 01-2.86E 1
23.30-4.69E 01-2.86E 01
                                    -3.933
-3.964
                            -3.971
                                     -3.964
-3.995
                            -3.992
                            -4.013
23.20-4.68E 01-2.86E 01
                            -4.034
                                     -4.026
23.30-4.68E 01-2.86E 01
                                     -4.057
                            -4.054
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23.80-4.67E 01-2.86E 01 -4.075 -4.081 23.80-4.67E 01-2.86E 01 -4.096 -4.119 23.70-4.67E 01-2.86E 01 -4.138 -4.181 23.80-4.67E 01-2.87E 01 -4.160 -4.212 23.90-4.67E 01-2.87E 01 -4.160 -4.212 24.00-4.67E 01-2.87E 01 -4.205 -4.274 24.10-4.68E 01-2.87E 01 -4.229 -4.274 24.30-4.68E 01-2.87E 01 -4.229 -4.336 24.30-4.69E 01-2.87E 01 -4.304 -4.339 24.50-4.70E 01-2.88E 01 -4.359 -4.366 24.50-4.70E 01-2.88E 01 -4.359 -4.366 24.50-4.70E 01-2.88E 01 -4.359 -4.462 24.70-4.71E 01-2.88E 01 -4.359 -4.462 24.70-4.71E 01-2.88E 01 -4.359 -4.462 24.70-4.71E 01-2.89E 01 -4.359 -4.662 25.30-4.75E 01-2.89E 01 -4.551 -4.652 25.30-4.76E 01-2.90E 01 -4.551 -4.662 25.30-4.77E 01-2.90E 01 -4.551 -4.662 25.50-4.77E 01-2.90E 01 -4.551 -4.662 25.50-4.77E 01-2.90E 01 -4.758 -4.662 25.50-4.77E 01-2.91E 01 -4.88E -4.88E -4.91E 25.80-4.77E 01-2.91E 01 -4.88E -4.91E 25.80-4.77E 01-2.91E 01 -4.99E -5.90E -5.					
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24. 30-4. 68E 01-2.87E 01 -4.229 -4.305 24. 30-4. 88E 01-2.87E 01 -4.233 -4.336 24. 30-4. 69E 01-2.88E 01 -4.353 -4.336 24. 40-4. 69E 01-2.88E 01 -4.331 -4.399 24. 50-4.70E 01-2.88E 01 -4.359 -4.430 24. 50-4.70E 01-2.88E 01 -4.359 -4.430 24. 70-4.71E 01-2.88E 01 -4.359 -4.462 24. 70-4.71E 01-2.89E 01 -4.850 -4.557 25. 00-4.71E 01-2.89E 01 -4.850 -4.557 25. 00-4.71E 01-2.89E 01 -4.554 -4.654 25. 30-4.75E 01-2.89E 01 -4.591 -4.6634 25. 30-4.75E 01-2.80E 01 -4.591 -4.6634 25. 30-4.75E 01-2.80E 01 -4.591 -4.6634 25. 50-4.75E 01-2.80E 01 -4.591 -4.670 -4.752 25. 50-4.75E 01-2.80E 01 -4.591 -4.687 25. 50-4.75E 01-2.90E 01 -4.591 -4.687 25. 50-4.75E 01-2.90E 01 -4.754 -4.687 25. 50-4.77E 01-2.90E 01 -4.754 -4.885 25. 80-4.77E 01-2.91E 01 -4.882 -4.885 26. 50-4.77E 01-2.91E 01 -4.882 -4.91E 26. 50-4.77E 01-2.91E 01 -4.882 -4.91E 26. 50-4.77E 01-2.91E 01 -5.670 -5.051 26. 50-4.75E 01-2.91E 01 -5.670 -5.051 26. 50-4.75E 01-2.91E 01 -5.670 -5.366 -5.316 27. 50-4.68E 01-2.91E 01 -5.366 -5.366 -5.366 27. 50-4.68E 01-2.91E 01 -5.566 -5.366 -5.366 27. 50-4.68E 01-2.91E 01 -5.566 -5.366 -5.366 27. 50-4.68E 01-2.91E 01 -5.504 -5.366 -5.364 27. 50-4.68E 01-2.91E 01 -5.504 -5.366 -5.364 27. 50-4.68E 01-2.91E 01 -5.504 -5.366 -5.364 27. 50-4.68E 01-2.91E 01 -5.504 -5.504 -5.505 28. 50-4.55E 01-2.91E 01 -5.504 -5.505 -5.505 28. 50-4.55E 01-2.91E 01 -5.504 -5.505 -5.505 28. 50-4.55E 01-2.91E 01 -5.504 -5.505 -5.505 28. 50-4.55E 01-2.91E 01 -5.506 -5.505 -5.5		01-2.87	01	-4. 182	-4.243
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24. 30-4. 68E 01-2.87E 01 -4. 253 -4. 336 24. 30-4. 69E 01-2.88E 01 -4. 359 -4. 367 24. 50-4. 70E 01-2.88E 01 -4. 359 -4. 462 24. 70-4. 71E 01-2.88E 01 -4. 359 -4. 462 24. 70-4. 71E 01-2.89E 01 -4. 359 -4. 462 24. 70-4. 71E 01-2.89E 01 -4. 359 -4. 452 24. 80-4. 72E 01-2.89E 01 -4. 450 -4. 557 25. 30-4. 74E 01-2.89E 01 -4. 450 -4. 557 25. 30-4. 74E 01-2.89E 01 -4. 554 -4. 689 25. 30-4. 75E 01-2.89E 01 -4. 554 -4. 689 25. 30-4. 75E 01-2.90E 01 -4. 554 -4. 687 25. 30-4. 75E 01-2.90E 01 -4. 554 -4. 687 25. 50-4. 76E 01-2.90E 01 -4. 670 -4. 752 25. 50-4. 77E 01-2.90E 01 -4. 754 -4. 818 25. 80-4. 77E 01-2.90E 01 -4. 754 -4. 818 25. 80-4. 77E 01-2.91E 01 -4. 842 -4. 885 25. 80-4. 77E 01-2.91E 01 -4. 98E -4. 99E 26. 30-4. 77E 01-2.91E 01 -4. 979 -4. 984 26. 30-4. 77E 01-2.91E 01 -5. 366 -5. 051 26. 80-4. 77E 01-2.91E 01 -5. 366 -5. 314 26. 80-4. 77E 01-2.91E 01 -5. 366 -5. 314 26. 80-4. 77E 01-2.91E 01 -5. 366 -5. 281 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 281 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 281 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 281 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 314 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 314 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 314 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 318 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 314 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 314 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 337 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 365 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 27. 30-4. 65E 01-2.91E 01 -5. 366 -5. 378 28. 30-4. 47E 01-2.90E 01 -5. 362 -5. 388 29. 30-4. 47E 01-2.90E 01 -5. 862 -5. 860 29. 30-4. 46E 01-2.90E 01 -5. 862 -5. 889 29. 30-4. 46E 01-2.90E 01 -5. 862 -5. 889 29. 30-4. 46E 01-2.90E 01 -5.	24.10-4.68E	01-2.67	01	-4.229	-4.305
24. 30-4. 69E 01-2.88E 01 -4.304 -3.39 24. 50-4. 70E 01-2.88E 01 -4.359 -4.462 24. 70-4. 71E 01-2.88E 01 -4.359 -4.462 24. 70-4. 71E 01-2.89E 01 -4.368 -4.493 24. 80-4. 72E 01-2.89E 01 -4.368 -4.493 24. 80-4. 72E 01-2.89E 01 -4.483 -4.589 25. 30-4. 74E 01-2.89E 01 -4.518 -4.555 25. 30-4. 74E 01-2.89E 01 -4.551 -4.654 25. 30-4. 75E 01-2.90E 01 -4.551 -4.682 25. 30-4. 76E 01-2.90E 01 -4.551 -4.687 25. 30-4. 76E 01-2.90E 01 -4.551 -4.687 25. 30-4. 77E 01-2.90E 01 -4.554 -4.687 25. 30-4. 77E 01-2.90E 01 -4.670 -4.752 25. 50-4. 77E 01-2.90E 01 -4.798 -4.888 25. 30-4. 77E 01-2.91E 01 -4.842 -4.885 25. 30-4. 77E 01-2.91E 01 -4.842 -4.885 26. 30-4. 77E 01-2.91E 01 -4.979 -4.981 26. 30-4. 77E 01-2.91E 01 -4.979 -4.981 26. 30-4. 77E 01-2.91E 01 -5.025 -5.018 26. 40-4. 77E 01-2.91E 01 -5.025 -5.018 26. 40-4. 77E 01-2.91E 01 -5.326 -5.314 26. 30-4. 76E 01-2.91E 01 -5.327 -5.381 27. 30-4.65E 01-2.91E 01 -5.327 -5.3378 28. 30-4.47E 01-2.90E 01 -5.327 -5.329 -5.3388 29. 30-4.47E 01-2.90E 01 -5.327 -5.329 -5.3388 29. 30-4.47E 01-2.90E 01 -5.327 -5.32	24.20-4.682	01-2.872	01	-4.253	-4.336
24.50-4.70E 01-2.88E 01 -4.359 +4.462 24.70-4.71E 01-2.88E 01 -4.359 +4.462 24.70-4.71E 01-2.89E 01 -4.359 +4.452 24.80-4.72E 01-2.89E 01 -4.350 +4.555 24.80-4.72E 01-2.89E 01 -4.350 +4.587 25.00-4.74E 01-2.89E 01 -4.354 +4.654 25.30-4.74E 01-2.89E 01 -4.554 +4.654 25.30-4.74E 01-2.90E 01 -4.554 +4.654 25.30-4.76E 01-2.90E 01 -4.591 +4.672 25.50-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 25.80-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -5.671 +5.051 26.50-4.77E 01-2.91E 01 -5.671 +5.051 27.30-4.66E 01-2.91E 01 -5.366 +5.117 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.65E 01-2.91E 01 -5.366 +5.354 28.30-4.51E 01-2.91E 01 -5.366 +5.364 29.00-4.52E 01-2.90E 01 -5.646 +5.5564 28.30-4.52E 01-2.91E 01 -5.662 +5.664 28.30-4.52E 01-2.90E 01 -5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.889	24.30-4.692	01-2.87	01	-4.278	44.367
24.50-4.70E 01-2.88E 01 -4.359 +4.462 24.70-4.71E 01-2.88E 01 -4.359 +4.462 24.70-4.71E 01-2.89E 01 -4.359 +4.452 24.80-4.72E 01-2.89E 01 -4.350 +4.555 24.80-4.72E 01-2.89E 01 -4.350 +4.587 25.00-4.74E 01-2.89E 01 -4.354 +4.654 25.30-4.74E 01-2.89E 01 -4.554 +4.654 25.30-4.74E 01-2.90E 01 -4.554 +4.654 25.30-4.76E 01-2.90E 01 -4.591 +4.672 25.50-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.90E 01 -4.754 +4.818 25.80-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 25.80-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -4.99E +4.886 +4.918 26.30-4.77E 01-2.91E 01 -5.671 +5.051 26.50-4.77E 01-2.91E 01 -5.671 +5.051 27.30-4.66E 01-2.91E 01 -5.366 +5.117 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.66E 01-2.91E 01 -5.366 +5.314 27.30-4.65E 01-2.91E 01 -5.366 +5.354 28.30-4.51E 01-2.91E 01 -5.366 +5.364 29.00-4.52E 01-2.90E 01 -5.646 +5.5564 28.30-4.52E 01-2.91E 01 -5.662 +5.664 28.30-4.52E 01-2.90E 01 -5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.662 +5.664 28.30-4.49E 01-2.90E 01 -5.662 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.00-4.46E 01-2.90E 01 -5.862 +5.889	24.40-4.69E		21	-4.304	-4.399
24. 60-4. 70 E 01-2. 88 E 01 -4. 359 -4. 462 24. 70-4. 71 E 01-2. 88 E 01 -4. 358 -4. 493 24. 80-4. 72 E 01-2. 89 E 01 -4. 418 -4. 527 25. 80-4. 73 E 01-2. 89 E 01 -4. 418 -4. 589 25. 30-4. 74 E 01-2. 89 E 01 -4. 518 -4. 622 25. 30-4. 74 E 01-2. 90 E 01 -4. 554 -4. 684 25. 30-4. 75 E 01-2. 90 E 01 -4. 554 -4. 687 25. 30-4. 76 E 01-2. 90 E 01 -4. 670 -4. 752 25. 50-4. 77 E 01-2. 90 E 01 -4. 670 -4. 752 25. 50-4. 77 E 01-2. 90 E 01 -4. 670 -4. 752 25. 50-4. 77 E 01-2. 90 E 01 -4. 754 -4. 881 25. 80-4. 77 E 01-2. 90 E 01 -4. 754 -4. 885 25. 80-4. 77 E 01-2. 90 E 01 -4. 933 -4. 851 25. 90-4. 77 E 01-2. 91 E 01 -4. 933 -4. 951 26. 30-4. 77 E 01-2. 91 E 01 -4. 933 -4. 984 26. 30-4. 77 E 01-2. 91 E 01 -4. 933 -4. 984 26. 30-4. 77 E 01-2. 91 E 01 -4. 933 -4. 984 26. 30-4. 77 E 01-2. 91 E 01 -5. 025 -5. 018 26. 40-4. 77 E 01-2. 91 E 01 -5. 025 -5. 018 26. 40-4. 77 E 01-2. 91 E 01 -5. 025 -5. 018 26. 40-4. 77 E 01-2. 91 E 01 -5. 366 -5. 018 26. 40-4. 70 E 01-2. 91 E 01 -5. 366 -5. 150 26. 80-4. 70 E 01-2. 91 E 01 -5. 306 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 281 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 314 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 344 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 344 27. 30-4. 68 E 01-2. 91 E 01 -5. 366 -5. 364 27. 40-4. 58 E 01-2. 91 E 01 -5. 366 -5. 364 28. 30-4. 51 E 01-2. 91 E 01 -5. 366 -5. 364 29. 30-4. 48 E 01-2. 90 E 01 -5. 366 -5. 364 28. 30-4. 51 E 01-2. 90 E 01 -5. 366 -5. 364 28. 30-4. 48 E 01-2. 90 E 01 -5. 362 -5. 382 28. 30-4. 48 E 01-2. 90 E 01 -5. 362 -5. 382 28. 30-4. 48 E 01-2. 90 E 01 -5. 362 -5. 382 28. 30-4. 48 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2. 90 E 01 -5. 362 -5. 382 29. 30-4. 46 E 01-2.	24.50-4.70E		01	-4.331	-4.430
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27.80-4.63E 01-2.91E 01 -5.504 -5.409 27.60-4.60E 01-2.91E 01 -5.504 -5.401 27.70-4.59E 01-2.91E 01 -5.565 -5.441 27.70-4.58E 01-2.91E 01 -5.565 -5.472 27.80-4.58E 01-2.91E 01 -5.593 -5.503 27.80-4.56E 01-2.91E 01 -5.620 -5.534 28.00-4.55E 01-2.91E 01 -5.646 -5.564 28.10-4.54E 01-2.90E 01 -5.670 -5.595 28.20-4.52E 01-2.90E 01 -5.694 -5.625 28.30-4.51E 01-2.90E 01 -5.717 -5.655 28.40-4.50E 01-2.90E 01 -5.761 -5.714 28.50-4.49E 01-2.90E 01 -5.761 -5.714 28.50-4.48E 01-2.90E 01 -5.761 -5.714 28.50-4.48E 01-2.90E 01 -5.761 -5.714 28.60-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.46E 01-2.90E 01 -5.802 -5.802 28.90-4.46E 01-2.90E 01 -5.862 -5.802 29.10-4.46E 01-2.90E 01 -5.862 -5.889	27.20-4.66E			-5.403	
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28.00-4.55E 01-2.90E 01 -5.646 -5.564 28.10-4.54E 01-2.90E 01 -5.670 -5.595 28.20-4.52E 01-2.90E 01 -5.694 -5.625 28.30-4.51E 01-2.90E 01 -5.717 -5.655 28.40-4.50E 01-2.90E 01 -5.761 -5.714 28.50-4.49E 01-2.90E 01 -5.762 -5.714 28.50-4.48E 01-2.90E 01 -5.782 -5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.822 -5.802 28.90-4.46E 01-2.90E 01 -5.822 -5.831 29.00-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.889	27.90-4.58E			-5.593	-5.503
28.10-4.54E 01-2.90E 01 -5.670 -5.595 28.20-4.52E 01-2.90E 01 -5.694 -5.625 28.30-4.51E 01-2.90E 01 -5.717 -5.655 28.40-4.50E 01-2.90E 01 -5.761 -5.714 28.50-4.49E 01-2.90E 01 -5.762 -5.714 28.50-4.48E 01-2.90E 01 -5.802 -5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.822 -5.802 28.90-4.46E 01-2.90E 01 -5.822 -5.831 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.10-4.46E 01-2.90E 01 -5.882 -5.889					
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28.30-4.51E 01-2.90E 01 -5.717 -5.655 28.40-4.50E 01-2.90E 01 -5.739 -5.684 28.30-4.49E 01-2.90E 01 -5.761 -5.714 28.50-4.48E 01-2.90E 01 -5.782 -5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.822 -5.802 28.90-4.46E 01-2.90E 01 -5.822 -5.802 29.00-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.882 -5.889				-5.670	
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28.50-4.49E 01-2.90E 01 -5.761 -5.714 28.50-4.48E 01-2.90E 01 -5.762 -5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.802 -5.802 28.90-4.46E 01-2.90E 01 -5.822 -5.802 28.90-4.46E 01-2.90E 01 -5.842 -5.831 29.00-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.860				-5.717	75.655
28.90-4.48E 01-2.90E 01 -5.782 +5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.822 +5.802 28.90-4.46E 01-2.90E 01 -5.842 +5.831 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.10-4.46E 01-2.90E 01 -5.882 +5.889				-5.739	-5.684
28.90-4.48E 01-2.90E 01 -5.782 +5.743 28.70-4.48E 01-2.90E 01 -5.802 -5.773 28.80-4.47E 01-2.90E 01 -5.822 +5.802 28.90-4.46E 01-2.90E 01 -5.842 +5.831 29.00-4.46E 01-2.90E 01 -5.862 +5.860 29.10-4.46E 01-2.90E 01 -5.882 +5.889				-5.761	75.714
28.80-4.47E 01-2.90E 01 -5.822 -5.802 28.90-4.46E 01-2.90E 01 -5.842 -5.831 29.00-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.882 -5.889				-5,782	
28.90-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.889			01		
28.90-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.860 29.10-4.46E 01-2.90E 01 -5.862 -5.889		01-2.90	01	-5.822	-5.802
29.10-4.46E 01-2.90E 01 -5.862 +5.860 29.10-4.46E 01-2.90E 01 -5.882 +5.889			01	-5.842	-5,831
29.10-4.462 01-2.902 01 -5.882 -5.889			A PROPERTY OF THE PROPERTY OF	-5.862	+5.860
29.20-4.452 01-2.902 01 -5.902 -5.918		01-2.902			-5.889
	29.20-4.452	01-2.902	64	-5.902	-5.918

27 Sec. 20218-07

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39 30-4" 457	01-2 004	01	-E' 022	
29.80-4,45E	01-2.90	01	-5,922	-5,947
29.50-4.45E	01-2.919	01	-5.963	-6.005
29.50-4.45E	01-2.91	01	-5.984	+5.976 +6.005 +6.034
29.70-4.46E	01-2.91	01	-6.006	-6.063
29.80-4.46E	01-2.918	01	-6.629	46.092
29.90-4.46E	01-2.91	01	-6.053	46.122
30.10-4.472	01-2.92	01	-6.077 -6.103 -6.130	-6, 151 -6, 181 46, 211
30.20-4.482	01-2.92	61	-6.130	46,211
30.30-4.48E	01-2.928	01	-6. 158	-6.241
30.40-4,49E	01-2.928	01	-6, 188	46,271
30.50-4.50E	01-2.93	01	-6.219	46.302
30.70-4.50E	01-2.93	01	-6.251 -6.285 -6.320	66,333
30.80-4.51E	01-2.938	01	-6. 120	-6.364 -6.395
30.90-4.522	01-2.93	01	-6.356	-6.426
31.00-4.52E	01-2.948	01	-6.394	46.457
31.10-4.532	01-2.94	10	-6.634	-6.489
31.20-4.53E	01-2.948	Ú¶	-6,474	·6,521
31.40-4.53E	01-2.942	01	-6.515 -6.558 -6.600	6.553 6.585 6.617
31.50-4.53E	01-2.94	01	-6 600	-4 617
31.60-4.53E	01-2.948	01	-6.643	-6.649
31.70-4.522	01-2.94	01	-6.886	-6.681
31.80-4.52E	01-2.942	01	-6.729	-6.713
31.90-4.512	01-2.94	01	-6.771	-6.745
32.00-4.50E 32.10-4.49E	01-2.94	01	-6.813 -6.853	-6.809
32.20-4.48E	01-2.942	01	-6,893	-6.840
32.50-4.47E	01-2.94	01	-6.931	6.872
32.40-4.46E	01-2.948	01	-6.968	-6,903
32.50-4.442	01-2.948	01	-7.003	-6.934
32.60-4.432	01-2.948	01	-7.637	-6.964
32.70-4.41E	01-2.932	01	-7.670 -7.100	-6.964 -6.995 -7.025
32.90-4.39E	01-2.93	01	-7.130	-7.055
33.00-4.37E	01-2.93	01	-7. 157	-7.084
33.10-4.362	01-2.932	01	-7. 784	-7.113
33.20-4.342	01-2.93	01	-7.209	47.142
33.30-4.33E	01-2.922	01	-7.233 -7.256	47, 142 47, 171 47, 199
33.60-4.32E	01-2.92E 01-2.92E	01	-7.256 -7.278	•7.199 •7.227
33.60-4.30E	01-2.92	61	-7,299	-7,255
33.70-4.292	01-2.928	07	-7.319	47,283
33.80-4.28E	01-2.92	01	-7.339	÷7.310
33.90-4.28E	01-2.92	70	-7.358 -7.377 -7.396	47.337 47.364
34.00-4.27E	01-2.92	01	-7.377	-7.391
34.20-4.26E	01-2,922	01	-7.415	-7.418
34.30-4.262	01-2.92	01	-7.434	=7.845
34.40-4,26E	01-2.928	01	-7,453	47.472
34.50-4.25E	01-2.92	01	-7.472	÷7.499
34.60-4.25E	01-2.92	91	-7.492	÷7,526
34.70-4.26E	01-2.92	01	-7.512 -7.533	-7.553 -7,580
34.80-4.26E	01-2.928	01	-7.555	-7.608
35.00-4.26E	01-2.938	01	-7,578	+7.636
35.10-4.272	01-2.93	01	-7.602	-7.663
		Wall to		A DOWN TO THE REAL PROPERTY.

But a no compact for

and making a property of the

35.20-4.272	01-2.938	01	-9' 427	-7.691	
35.30-4.282	01-2.93	01	-7'.627 -7'.653	-7.720	
35.40-4.282	01-2.938	01	-7,661	-7.748	
35.80-4.292	01-2.93	01	-7.710	-7,748	
35.60-4.30E	01-2.948	01	-7.741	e7.806	
35.70-4.30E	01-2.94	01	-7.773 -7.806 -7.841	•7.836 •7.865 •7.895	
35. 80-4.312	01-2.948	61	-7.806	÷7,865	
35.00-4.312	01-2.94	01	-7.841	-7,895	
36.00-4.312	01-2.945	01	-7.878	•7.926 •7.956	
36.40-4.322	01-2.952	01	-7.915	+7.956	
36.20-4.32E	01-2.958	01	-7,953	67,986	
36.30-4.322	01-2.952	01	-7,993	-8.017	
36.40-4.32E	01-2.95	01	-8,032 -8,073	48,048	
36,50-4,31E	01-2.95	01	-0,0/3	0,079	
36.70-4.30E	01-2.95E 01-2.95E	61	-6, 113	·8.109	
36.80-4.30E	01-2.95	01	-8, 192	-8, 140 -8, 171	
36.90-4.29E	01-2.95	01	-6,231	40,201	
37.00-4.28E	01-2.942	01	-8,269	6,232	
37.10-4.27E	01-2.948	01	-0,106	48,262	
37.20-4.26E	01-2.948	01	-0.342	6,262 6,292 8,321	
37.30-4,242	01-2,948	10	-8.342 -8.376 -8.408	-8,321	
37.40-4.23E	01-2.94	01	-8.408	₩8,350	
37.50-4.222	01-2.93	01	-8,439	-0,379	
37.60-4.20E	01-2.932	01	-8,469	48,408	
37.70-4.19E	01-2.932	01	-8,497	+8,436	
37.80-4.18E	01-2.932	69	-8,523	-8.464	
37.90-4.16E	01-2.932	01	-8.548	-8.491	
38.00-4.15E	01-2.928	01	-8,572	48.518	
38.10-4.14E	01-2.92	01	-8,595	-8,545	
38.20-4.13E	01-2.928	01	-8,616	48.571	
38,30-4,122	01-2,925	01	-8,637	-6,597	
38.40-4.112	01-2.91	01	-0.675	-8.623 -8.648	
38.50-4.10E	01-2.91	01	-8' 493	-8.674	
38.70-4.08E	01-2.918	01	-8.656 -8.675 -8.693 -8.711	-8.699	
38.80-4.08E	01-2.91	01	-8,729	. 48.724	
38.90-4.08E	01-2.91	01	-8.747	-8.748	
39.00-4.07E	01-2.918	04	-8.764	-8.773	
39.10-4.07E	01-2.912	01	-8.782	#8.798	
39.20-4.07E	01-2.918	01	-5.500	₩8.823	
39.30-4.07E	01-2.912	01	-8.819	-8.848	
39.40-4.07E	01-2.91\$	11	-8.838	48.873	
39.50-4.07E	01-2.915	01	-8.858	-8,898	
39.60-4.07E	01-2.918	91	-8.879	-8.924	
39.70-4.08E	01-2.922	01	-8,901	-8.950	
39.80-4.08E	01-2.92	01	-8.924	-8.976	
39.90-4.09E	01-2.92	01	-8.948	-9.002	
40.00-4.09E	01-2.928	41	-8,974	-9.029	
40.40-4.102	01-2.92	01	-9.001	-9.056	
40.20-4.10E	01-2.93	04	-9.060	-9.083	
40.30-4.10E	01-2.932	01	-9.091	+9.139	
40.50-4.11E	01-2.93	01	-9.124	-9, 168	
40.60-4.122	01-2.938	01	-9, 158	-9. 196	
40.70-4.122	01-2.93	01	-9, 193	-9,196	
40.80-4.128	01-2.93	01	-9.229	49.254	
40.90-4.122	01-2.938	01	-9.266	49.284	
41.00-4.122	01-2.938	01	-9.303	+9.313	137.37
			PARTY NAMED OF		IV-26

- A Reserved His

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A TOK ! MINGWOOD, IE

				0.000 1000
41.10-4.11E	01-2,93	01	-9.341	-9,342
41.20-4.11E	01-2.938	4	-9.379	49.372
41.30-4.10E	01-2.938	01	-9.416	-9.430
41.40-4.09E	01-2.932	1.1	-9.452	-9.430
41.50-4.08E	01-2.93	01	-9.488	-9.459
41.60-4.07E	01-2.932	01	-9.523	9.488
41.70-4.06E	01-2.93	01	-9.556	49.516
41.80-4.05E	01-2.92	1	-9.589	-0 544
41.90-4.04E	01-2.92	**	-0.440	-0' 592
42.00-4.02E	01-2.92	01	-0.013	-9.544 -9.572 -9.599
		01	-9.619 -9.648 -9.676	-9.626
42.10-4.01E	01-2.912	01	-9.676	
42.20-4.00E	01-2.91	01	-9.702	-9.652
42.30-3.99E	01-2.912	01	-9.727	-9.678
42.40-3.97E	01-2.90	11	-9.750	-9.704 -9.729 -9.753
42.50-3.96E	01-2.902	01	-9.772 -9.793	-9.729
42.60-3.95E	01-2.902	-1	-9.793	-9.753
42.70-3.94E	01-2.90E	01	-9.812	-9.777
42.80-3.93E	01-2.892	91	-9.831	49.801
42.90-3.92E	01-2.892	01	-9.849	-9.825
43.00-3.91E	01-2.892	01	-9.866	-9.848
43.10-3.91E	01-2.892	01	-9.883	-9.871
43.20-3.90E	01-2.898	01	-9.900	-9.848 -9.871 -9.894
43.30-3.90E	01-2.898	01	-9.916	-9.917
43.40-3.89E	01-2.892	01	-9.932	-9.939
43.50-3.89E	01-2.892	01	-9.949	-9.962
43.60-3.89E	01-2.891	1	-9.966	49.985
43.70-3.89E	01-2.892	01	-9.983	-10' 008
43.80-3.89E	01-2.892	24		-10.008
43 00-3 000			-10.001	
43.90-3.89E	01-2.892	01		-10.054
44.00-3.89E	01-2.892	41	-10.040	-10.078
44.10-3.89E	01-2.892	01	-10.060	-10.102
44.20-3.90E	01-2.892	41	-10.082	-10.126
44.30-3.90E	01-2.892	01	-10.106	-10.151 -10.176
44.40-3.91E	01-2.90	21	-10.130	-10.170
44.50-3.91E	01-2.90E	01	-10.157	-10.201
44.60-3.91E	01-2.90	1	-10.184	-10.227
44.70-3.92E	01-2.90E	01	-10.213	-10.253
44.80-3.92E	01-2.90	91	-10.243	-10.280
44.90-3.92E	01-2.902	01	-10.275	-10.307
45.00-3.92E	01-2.90	41	-10.307	-10.335
45.10-3.92E	01-2.90E	01	-10.341	-10.362
45.20-3.92E	01-2.90	01	-10.375	-10.390
45.30-3.92E	01-2.902	01	-10.410	-10.418
45.40-3.92E	01-2.90	11	-10.445	-10.446
45.50-3.91E	01-2.902	01	-10.480	-10.474
45.60-3.91E	\$1-2.90E	. 1	-10.515	-10.501
45.70-3.90E	01-2.902	01	-10.549	-10.529
45.80-3.89E	01-2.90%	41	-10.582	-10.556
45.90-3.88E	01-2.892	01	-10.614	-10.584
46.00-3.87E	(1-2.89E	31	-10.645	-10.610
46.10-3.86E	01-2.892	01	-10.674	-10.610 -10.636 -10.662
46.20-3.84E	01-2.882	4	-10.702	-40 662
			-10.729	-10.687
46.30-3.83E	01-2.882	01		-10.007
46.40-3.82E	01-2.882	:1	-10.754	-10.712
46.50-3.80E	01-2.872	01	-10.777	-10.736
46.60-3.79E	01-2.87	01	-10.799	-10.760
46.70-3.78E	01-2.87	07	-10.820	-10.783
46.80-3.77E	01-2.862	. 1	-10.839	P10.806
46.90-3.76E	01-2.862	01	-10.858	-10.828

680 0470 877 0401 -1-858 0470 877 0401 -5

47.00-3.752	01-2.86	01	10,875	-10, 050
47.10-3.742	01-2.65		10.892	-10.871
47.20-3.732	01-2.858	01	-10.908	-10.893
47.80-3.72E	01-2.85		10.923	-10.913
47.40=3.72	01-2.858	01	10.938	-10.934
47.80-3.71E	01-2.845		10.953	-10.955
47.70-3.71E	01-2.84		10.984	-10,996
47.80-3.712	01-2.848		10.999	-11.017
47.90-3.712	01-2.64	01	-11.015	-11.037
48.00-3.71E	01-2.848	01	-11.632	-11.059
48,10-3,712	01-2.65		-11.050	-11,080
48.20-3.71E	01-2.852		11.069	-11,102
48.40=3.722	01-2.85		11.110	-11,146
48.50-3.72E	01=2.85			-11.170
48.50-3.72E	01-2.852	01 .	11, 132	-11.170 -11.193 -11.217
	01-2.85		11, 181	-11,217
48.80-3.732	01-2.868	01	11,200	-11,202
48.80-3.73E	01-2.868	01	11,236	#11,267 #11,292
49.10-3.732	01-2.86	01	11.295	-11,318
49.10-3.73E	01-2.86	09	11,295 11,326 11,358	-11.344
49,30-3,732	01-2.86	01 .	11,358	-11,370
49.40-3.732	01-2.868		-11.391	-11.396
49.50-3.72E	01-2.86	01	11.423	-11,423
49.50-3.72E	01-2.862		11.855	11,449
49.80-3.702	01-2.858		11.519	-11.301
49.00-3.70E	01-2.85	01 .	11,549	611,527
50.00-3.68E	01-2.842	01	-11.579	-41.552
50,10-3,672	01-2.842		11,607	-11,577
50.20-3.66E 50.30-3.65E	01-2.842		-11.634 -11.659	-11.602
50.40-3,632	01-2.838	01 .	-11.683	-11.626 -11.649
50.50-3.62E	01-2.822	01 .	-11.705	-41.671
50.60-3.61E	01-2.822	01	-11.726	m11.693
50.70-3.60E	01-2.812	01	-11.746	11.715
50.90-3.59E	01-2.812	01	-11.764	-11.736
51.00-3.57E	01-2.802		-11.781	-11.756 -11.776 -11.795
51.10-3.56E	01-2.802	01	-11.797 -11.813	-11.795
51.20-3.55E	01-2.79	01	-11.827	-11.814
51.30-3.54E	01-2.792	01	-11.841	-11.833
51.40-3.53E 51.50-3.53E	01-2.792		11.855	m11.851
51.60-3.53E	01-2.792	01	11.869	-11.888
51.70-3.522	01-2.798		11.896	-11.907
51.80-3.52E	01-2.78		-11.911	-11.925
51.90-3.52E	01-2.782		-11.925	-11,944
52.00-3.52E	01-2.788	61	-11.941	-11,963
52.40-3.52E 52.20-3.52E	01-2.792	01	11.957	-11.982
52.30-3.522	01-2.79	01	•11.975 •11.993	-12.002
52.40-3.53E	01-2.79	01 .	12,613	-12.043
52,50-3,532	01-2.792	91 .	-12,034	-12,065
52.60-3.53E	01-2.79		12.056	-12.086
52.70-3.53E 52.80-3.53E	01-2.792		-12.080	-12.109
32,70=3,332	V1-2.798		12.143	-124 134

A TORREST PROJECT AND SERVICE

100,000 100,000,000,000 100,000 100,000,000

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52.90-3.54E 01-2.80E 01 -12.131 -12.155
53.00-3.54E 01-2.80E 01 -12.159 -12.179
53.70-3.54E 01-2.80E 01 -12.187 -12.203
53.20-3.53E 01-2.80E 01 -12.217 -12.226
53.30-3.53E 01-2.79E 01 -12.246 -12.253
53.40-3.53E 01-2.79E 01 -12.276 -12.278
53.50-3.52E 01-2.79E 01 -12.306 -12.302
53.60-3.51E 01-2.79# 1 -12.336 -12.327
53.70-3.51E 01-2.78E 01 -12.365 -12.352
53.80-3.50E 01-2.78E 01 -12.393 -12.376
53.90-3.49E 01-2.78E 01 -12.421 -12.400
54.00-3.48E 01-2.77E 1 -12.447 -12.423
54.10-3.46E 01-2.77E 01 -12.472 -12.446
54.20-3.45E 01-2.76E 1 -12.495 -12.468
54.30-3.44E 01-2.76E 01 -12.517 -12.489
54.40-3.43E 01-2.75E -1 -12.537 -12.510
54.50-3.41E 01-2.752 01 -12.557 -12.530
54.60-3.40E 01-2.74E 01 -12.574 -12.549
54.70-3.39E 01-2.74E 01 -12.591 -12.568
54.80-3.38E 01-2.73E 1 -12.606 -12.586
54.90-3.37E 01-2.73E 01 -12.621 -12.604
55.00-3.36E 01-2.728 01 -12.634 -12.621
55.10-3.35E 01-2.72E 01 -12.647 -12.638
55.20-3.34E (1-2.71E 1 -12.660 -12.654
55.30-3.34E 01-2.71E 01 -12.672 -12.670
55.40-3.33E 01-2.718 01 -12.684 -12.687
55.50-3.33E 01-2.71E 01 -12.697 -12.703
55.60-3.33E 01-2.71E 01 -12.709 -12.719
55.70-3.32E 01-2.71E 01 -12.722 -12.735
55.80-3.32E 01-2.718 .1 -12.736 -12.752
55.90-3.322 01-2.712 01 -12.750 -12.769
56.00-3.32E 01-2.71E 01 -12.765 -12.787
56.10-3.32E 01-2.71E 01 -12.781 -12.805
56.20-3.32E 01-2.71E .1 -12.799 -12.823
56.30-3.33E 01-2.71E 01 -12.818 -12.843
56.40-3.33E 01-2.71E 1 -12.838 -12.862
56.50-3.33E 01-2.71E 01 -12.859 -12.883
56.60-3.33E (1-2.71E (1 -12.882 -12.904
56.70-3.33E 01-2.71E 01 -12.905 -12.925
56,80-3,33E 01-2,71E 1 -12,930 -12,947
56.90-3.332 01-2.712 01 -12.956 -12.970
57.00-3.33E 01-2.71E 01 -12.983 -12.993
57.10-3.32E 01-2.71E 01 -13.010 -13.016
57.20-3.32E 01-2.71E 1 -13.038 -13.039
57.30-3.31E 01-2.70E 01 -13.065 -13.062
57.40-3.30E (1-2.70E .1 -13.093 -13.086
57.50-3.30E 01-2.70E 01 -13.119 -13.108
57.60-3.29E 01-2.69E 1 -13.145 -13.131
57.70-3.28E 01-2.69E 01 -13.170 -13.153
57.80-3.26E 01-2.68E 1 -13.194 -13.174
57.80-3.26g 01-2.68g 1 -13.194 -13.174
57.90-3.25g 01-2.68g 01 -13.216 -13.195
58.00-3.24E 01-2.67E 1 -13.238 -13.215
58.10-3.23E 01-2.66E 01 -13.257 -13.235
58.20-3.21E (1-2.66E (1 -13.276 -13.254
58.30-3.20E 01-2.65E 01 -13.293 -13.271
58.40-3.19E 01-2.64E J1 -13.308 -13.289
58.50-3.182 01-2.642 01 -13.323 -13.305
58.60-3.17E (1-2.63E :1 -13.337 -13.321
58.70-3.162 01-2.632 01 -13.349 -13.336
```

88.80-3,188 01-2.628 01 -13,361 -13,361	
50.00-3.14E 01-2.62 01 -13.372 -13.366 59.00-3.13E 01-2.61 01 -13.383 -13.380	
89. 10-3, 128 01-2.61 01 -13, 383 -13, 384 89. 10-3, 128 01-2.61 01 -13, 394 -13, 394	
\$9.30-3.128 01-2.618 01 -13,404 -13,406	
59.80-3.118 01-2.408 01 -13.815 -13.422	
87.40-3.112 01-2.408 01 -13,426 -13,436	The second secon
89.80-3,112 01-2.604 01 -13.638 -12.480	
89.40-3-118 01-2.608 01 -13.850 -13.465	
\$9.70-3,112 01-2.601 01 -13,864 -13.460 \$9.80-3,112 01-2.601 01 -13,874 -13,496	
59.00-3,11% 01-2.60% 01 -13.878 -13.496 59.00-3,11% 01-2.60% 01 -13.893 -13.512	
60.00-3.118 01-2.608 01 -13.509 -13.529	Contraction of Albert William States
60. 10-3. 118 01-2.608 01 -13.527 -13.547	
60.20-3,112 01-2,602 01 -13,546 -13,565	
60.30-3.112 01-2.602 01 -13.566 -13.584	The season will be a season of the season of
60.80-3,112 01-2.608 01 -13,588 -13,604	
60, 00-3, 102 01-2, 60 01 -13, 610 -13, 624	
60.10-3.102 01-2.604 01 -13.634 -13.645	
60.70-3,102 01-2.604 01 -13,654 -13,666	
60.00-3.102 01-2.602 01 -13.582 -13.687 60.00-3.092 01-2.591 01 -13.707 -13.709	
61.00-3.082 01-2.598 01 -13,732 -13,731	The second of th
61, 10-3,002 01-2,594 01 -13,757 -13,752	
61.20-3.072 01-2.582 01 -13.782 -13.773	And the state of t
61.80-3.062 01-2.588 01 -13.805 -13.794	
61,80-3,058 01-2,578 01 -13,828 -13,814	
61.60-3,038 01-2.868 01 -13.849 -13.834	A PARALLER AND LINE OF WARLESS W
61.00-3.022 01-2.869 01 -13.870 -13.853	
61.70-3.01E 01-2.55 01 -13.889 -13.871 61.80-2.99E 01-2.54 01 -13.906 -13.889	anding real and detail 2027 and and
61.80-2.982 01-2.534 01 -13.523 -13.905	
62.00-2,972 01-2,528 01 -13,938 -13,921	
62,10-2,962 01-2.524 01 -13,952 -13,936	A PERSON IN DELICION REPORTED
62.20-2.942 01-2.516 01 -13,964 -13,950	
62.30-2.938 01-2.508 01 -13.976 -43.964	an ellipsia in this section at the property
62.40-2.92E 01-2.50# 01 -13.987 -13.977 62.50-2.91E 01-2.49# 01 -13.997 -13.990	
62.50-2.91E 01-2.49E 01 -13.997 -13.990 62.50-2.90E 01-2.49E 01 -14.606 -14.002	
62.70-2.892 01-2.482 01 -14.015 -14.014	
62.80-2.892 01-2.488 01 -14.625 -14.025	
62.90-2.882 01-2.472 01 -14.634 -14.037	
63.00-2.872 01-2.478 01 -14.643 -14.049	A SIN DEL LES SENSENS SELECTIONS
63.10-2.872 01-2.478 01 -14.053 -14.061	
63.30-2.862 01-2.462 01 -14.663 -14.073 63.30-2.862 01-2.462 01 -14.674 -14.086	
63.30-2.862 01-2.462 04 -14.674 -44.086	
63.50-2.86E 01-2.46E 01 -14.699 -14.113	
63.60-2.862 01-2.468 01 -16.112 -14.128	
63.70-2.862 01-2.462 01 -14.128 -14.143	
63.00-2.86E 01-2.46E 01 -14.144 -44.159	SELECTION SANCTAGE TO SECTION OF
63.90-2.862 01-2.462 01 -14, 161 -14.176	
64.00-2.85E 01-2.468 01 -14.480 -14.193	e fetale de ser cer altri de la
64.10-2.852 01-2.464 01 -14.200 -14.211	
64.20-2.85E 01-2.45E 01 -14.221 -14.230 64.30-2.84E 01-2.45E 01 -14.242 -14.249	
64.00-2.842 01-2.458 01 -14.264 -14.269	
64.50-2.83E 01-2.84E 01 -18.287 -18.289	
64.60-2.832 01-2.448 01 -14.309 -14.309	IV-30
	14-20

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64.70-2.82E 01-2.43E 01 -14.332 -14.328
64.80-2.81E 01-2.43E 1 -14.354 -14.348
64.90-2.80E 01-2.42E 01 -14.375 -14.367
65.00-2.78E 01-2.41E 1 -14.396 -14.386
65.10-2.77E 01-2.81E 01 -14.815 -14.404
65.20-2.76E 01-2.40E 01 -14.434 -44.421 65.30-2.74E 01-2.39E 01 -14.451 -14.438
65.40-2.73E 01-2.38E .1 -14.467 -14.454
65.50-2.72E 01-2.37E 01 -14.482 -14.468
65.60-2.70E 01-2.36E 01 -14.495 -14.482
65.70-2.69E 01-2.35E 01 -14.507 -14.495
65.80-2.67E 01-2.34E 01 -14.518 -14.508
65.90-2.66E 01-2.33E 01 -14.528 -14.519
66.00-2.652 01-2.328 01 -14.537 -14.530
66. 10-2.64E 01-2.32E 01 -14.546 -14.540
66.20-2.63E 01-2.31E 1 -14.554 -44.550
66.30-2.622 01-2.302 01 -14.561 -14.560
66.40-2.61E 01-2.30E 01 -14.569 -44.569
66.50-2.60E 01-2.29E 01 -14.576 -14.579
66.60-2.59E 01-2.29E 01 -14.584 -14.588
66.80-2.58E 01-2.28E .1 -14.601 -14.608
66.90-2.582 01-2.282 01 -14.610 -14.619
67.00-2.57E 01-2.27E .1 -14.620 -14.630
67.10-2.57E 01-2.27E 01 -14.631 -14.642 67.20-2.57E 01-2.27E 01 -14.643 -44.654
67.30-2.56E 01-2.27E 01 -14.656 -14.668
67.40-2.56E 01-2.26E 01 -14.671 -14.682
67.50-2.56E 01-2.26E 01 -14.686 -14.697
67.60-2.55E (1-2.26E 1 -14.703 -14.712
67.70-2.55E 01-2.26E 01 -14.721 -14.729
67.80-2.54E 01-2.25E 01 -14.739 -14.746
67.90-2.54E 01-2.25E 01 -14.758 -14.763
68.00-2.532 01-2.242 01 -14.778 -14.781
68.10-2.52E 01-2.24E 01 -14.798 -14.799
68.20-2.512 01-2.232 01 -14.818 -14.818
68.30-2.50E 01-2.22E 01 -14.838 -14.836
68.40-2.49E (1-2.21E 1 -14.858 -14.853
68.50-2.47E 01-2.20E 01 -14.877 -14.871
68.60-2.46E 01-2.19E 1 -14.895 -14.887 68.70-2.45E 01-2.18E 01 -14.912 -14.903
68.80-2.43E (1-2.17E 1 -14.928 -74.919
68.90-2.412 01-2.162 01 -14.942 -14.933
69.00-2.40E 01-2.15E .1 -14.956 -14.946
69. 10-2.38E 01-2.13E 01 -14.968 -14.959
69.20-2.36E 01-2.12E .1 -14.979 -14.970
69.30-2.35E 01-2.11E C1 -14.989 -14.981
69.40-2.332 01-2.102 1 -14.998 -14.991
69.50-2.322 01-2.092 01 -15.006 -15.000
69.60-2.30E 1-2.08E 1 -15.013 -15.008
69.70-2.29E 01-2.07E 01 -15.019 -15.016
69.80-2.28E 01-2.06E 1 -15.025 -15.024
69.90-2.27E 01-2.05E 01 -15.031 -15.031
70.10-2.24E 01-2.03E 01 -15.043 -15.045
70.20-2.23E 01-2.02E 01 -15.049 -15.053
70.30-2.23E 01-2.01E 01 -15.056 -15.060
70.00-2.25E 01-2.04E .1 -15.037 -15.038
70.40-2.22E 01-2.01E .1 -15.063 -45.069
70.50-2.212 01-2.002 01 -15.071 -15.077
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		01-2.00	01 -15,6	00 -15,0	<u>요즘</u> (1988-1981) 전통 사용 경기 등은 이번 전문 및 공항하면 모든 전략이 하고 시민이를 가고 있다. 이 시간
		01-1.99	01 -15.6	89 -48.01	
		01-1.00	01 -15,1	12 -15, 10	
		01-1.00	01 -15.1	12 -15.1	
		01-1.97	01 -15.1	25 -48, 13	2 acessages of the Mark Comment of the Comment of t
		01-1.97	01 -15,1	39 -15.14	
71.	20-2, 161	01-1,968	01 -15.1	54 -15.1	
		01-1.95	01 -15.1	70 -15.17	
71.	00-2.141	01-1.95	01 -15,1	03 -15, 20 21 -15, 2	
71,	40-2, 131	01-1.94	01 -15,2	03 -15.20	
71.	10-2, 121	01-1.93	01 -18.2	21 -45,27	
71.	70-2,101	01-1.92	01 -15.2	38 015.23	
71.	10-2.091	01-1.91	01 -15,2	56 - 5,21	
71.	0-2.071	01-1.09	01 -15.2	73 -15.27	
72.	00-2.051	01-1.88	01 -15,2	90 = 15,21 06 = 15,30 21 = 15,3 35 = 15,3	
72.	10-2.041	01-1,86	01 -15,3	06 -15,30	
72.	20-2.021	01-1.65	01 -15,3	21 -15.3	
72,	10-2,001	01-1.631	01 -15.3	35 -15.37	
		01-1.028	U1 -15.3		
72.	BO-1,961	01-1.80		37 m13.33	
72.	10-1.53%	01-1.788	01 -15.3	70 -15.30	
72.	70-1,911	01-1.76	01 -15.1	79 -15,31	
72.	0-1.891	01-1.748	04 -15.3	88 -15.31	
		01-1.73	01 -15,3	95 -15,39	
73.	0-1.851	01-1.71	01 -15.4		
		01-1.69		07 -15.40	
73.	10-1.81	01-1.68	01 -15.4	12 -15.41	
73.	10-1.791	01-1.66	01 -15.4	16 -15.41	
		01-1.64	01 -15.4	21 -15.42	
73.	50-1.761	01-1.63	01 -15.4	25 - 15,42	
		01-1.61	01 -15.4	29 -45.43	
73.	70-1.721	01-1.60	01 -15.8	33 -15.45	
73.	0-1.701	01-1.500	01 -15.4	38 -15.44	O many and the second s
73.	90-1,691	01-1.57	01 -15.4	43 -15.44	
		01-1.568	01 -15.4	19 -15.4!	
74.	10-1.661	01-1.54	01 -15.6	36 -15,40	
74.	20-1.641	01-1.538		64 -15,46	
70.	30-1.621	01-1.51	01 -15.4	72 -15,47	
74.	80-1.612	01-1.50	01 -15.4	52 -45.41	
74.	50-1.591	01-1.49	01 -15.8	92 -15.49	Control of the second s
74.	60-1.571	01-1.47	01 -15.5	04 -15.50	1
74.	70-1.561	01-1.45	01 -15.5	17 -15.52	
		01-1.44		30 -15,51	
70.	90-1.521	01-1.42	01 -15.5	44 -15.54	
			01 -15.5	59 -15.56	10
75.	10-1.471	01-1.38	01 -15.5	74 -15.57	
75.	20-1-441	01-1.35	01 -15,5	09 -15,51	
		01-1.33		04 -15.60	
		01-1.80			
		01-1.271		33 -15.63	
		01-1.248	04 -15.4	47 -15.61	1- INCOMES OF THE PROPERTY OF
		01-1.21	01 -15.6	60 -15.61	
		01-1.185	01 -15.6	71 -15.60	
		01-1.15	01 -15.6	02 -15,60	One was the same of the same o
		01=1.11	01 -15	92 -18.47	
		01-1-08	01 -15.7	92 -15,61	
76.	20-1-101	01-1-04	04 -15.7	06 -15-70	
74	10-1-061	01-9.004	00 -18'4	44 -48 7	IV-32

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76.50-9.71E 00-9.18E 00 -15.724 -15.723 76.60-9.26E 00-8.75E 00 -15.728 -15.727
    76.70-8.80E 00-8.32E 00 -15.731 -15.731
   76.80-8.32E 00-7.86E 00 -15.734 -15.734
   76.90-7.83E 00-7.40E 00 -15.737 -15.736
77.00-7.32E 00-6.91E 00 -15.739 -15.739
77.10-6.79E 00-6.40E 00 -15.741 -15.742
    77.20-6.23E 00-5.86E 00 -15.744 -15.744
    77.30-5.64E 00-5.30E 00 -15.747 -75.748
    77.40-5.01E 00-4.69# 00 -15.750 -15.751
    77.50-4.34E 00-4.04E 00 -15.754 m15.755
    77.60-3.61E 00-3.34E 00 -15.759 -15.760
    77.70-2.812 00-2.562 00 -15.765 -15.766
   77.90-9.38E-01-7.39E-01 -15.772 -15.772
78.00 1.89E-01 3.64E-1 -15.788 -15.788
78.10 1.50E 00 1.65E 00 -15.788
    78.10 1.50E 00 1.65E 00 -15.797 -15.797
    78.20 3.06E 00 3.18E 00 -15.807 -15.808 78.30 4.97E 00 5.07E 00 -15.818 -15.819
    78.40 7.46E 00 7.53E .0 -15.830 -15.830
78.50 1.10E 01 1.10E 01 -15.830 -15.830 -15.830
78.60 1.70E 01 1.70E 01 -15.835 -15.842
78.60 1.70E 01 1.70E 01 -12.726 -12.726
78.80 1.70E 01 1.70E 01 -12.726 -12.726
78.80 1.70E 01 1.70E 01 -12.726 -12.726
78.80 1.70E 01 1.70E 01 -12.739 -12.739
76.90 1.10E 01 1.10E 01 -12.751 -12.751
79.00 7.54E 00 7.47E 00 -12.763 -12.751
79.00 7.54E 00 1.99E 00 -12.763 -12.763
79.30 1.68E 00 1.53E 00 -12.784 -12.785
79.30 1.68E 00 1.53E 00 -12.784 -12.785
79.30 1.68E 00 1.53E 00 -12.784 -12.785
79.50-6.95E-01-8.92E-01 -12.802 -12.803
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79.80-3.98E 00-3.54E 00 -12.82E -12.827
79.90-3.98E 00-4.26E 00 -12.82E -12.827
79.90-3.98E 00-4.26E 00 -12.82E -12.827
79.90-3.98E 00-6.55E 00 -12.82E -12.833
80.10-5.22E 00-5.55E 00 -12.83E -12.833
80.10-5.22E 00-6.55E 00 -12.83E -12.833
80.20-5.78E 00-6.14E 00 -12.83E -12.835
80.30-6.31E 00-6.69E 00 -12.83E -12.837
80.50-7.30E 00-7.22E 00 -12.83B -12.838
80.70-8.21E 00-8.68E 00-9.18E 00 -12.83B -12.838
80.70-8.21E 00-8.68E 00 -12.83B -12.838
80.70-8.96E 00-1.04E 01 -12.84E -12.851
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81.00-9.66E 00-1.04E 01 -12.84E -12.851
81.10-9.66E 00-1.04E 01 -12.84E -12.851
81.10-9.66E 00-1.04E 01 -12.84E -12.853
81.40-1.06E 01-1.24E 1 -12.851 -12.853
81.40-1.06E 01-1.24E 1 -12.851 -12.853
81.90-1.23E 01-1.20E 01 -12.88E -12.853
81.90-1.23E 01-1.20E 01 -12.88E -12.853
81.90-1.23E 01-1.33E 01-1.20E 01 -12.891 -12.899
82.00-1.28E 01-1.33E 01-1.29E 01 -12.891 -12.990
82.00-1.33E 01-1.33E 01 -12.991 -12.991
82.30-1.33E 01-1.33E 01 -12.991 -12.991
82.30-1.33E 01-1.33E 01 -12.991 -12.993
    78.50 1.102 01 1.102 01 -15.842 -15.842
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82.40-1.38E	01-1.47	01 -12		12,982	
82.50-1.40E	01-1.492			-42,962	
82.00-1,412	01-1,518		, 169	12,971	
82.70-1.43E 82.80-1.45E	01-1.538	01 -12	977	12.960	7,14
82.90-1.46E	01-1.56	01 -12	984	12.994	
83.00-1.48Z	01-1.582		995	12,999	
43.10-1.49E	01-1.60		600	-13.003	
83.20-1.50E	01-1.61		3.603	-13.007	-
83.30-1.52E	01-1.63	01 -13	.005	-13.009	
83.40-1.53E 83.50-1.54E	01-1.64		.007	-13.010	
53,30-1,54E	01-1.668		.008	3.010	
83.40-1.56E 83.70-1.57E	01-1.672		.008	13.010	
83.80-1.59E	01-1.70		.007	-13.008	
83,90-1,60E	01-1.72	01 -13	.005	-13,006	
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84,30-1,662	01-1.79		001	12,999	
84.40-1.68E	01=1.812		001	12.998	
84.60-1.71E	01-1.85	01 -13	.002	12,998 12,998 12,999	
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84.80-1.75E	01-1.89	01 -11	. 607	-13.001	
84.90-1,76E	01-1.91	01 -13	010	13,005	
85.00-1.78E	01-1.93	01 -13	.614	-13.009	
85, 10-1, 80E	01-1.95	01 -13	.019	13,014	
85.20-1.81E 85.30-1.83E	01-1.97	01 -13	0.624	13.020	
85.40-1.84Z	01-2.01	01 -13	638	43,035	
85.50-1.86E	01-2.02	01 -13	645	-13,043	
85.60-1.87E	01-2.04	01 -13	. 653	-43.051	7
85,70-1,88E	01-2.052	01 -13	.060	-13,060	
85.80-1.89E	01-2.06	01 -13	. 668	-13.069	
85.90-1.90E	01-2.07	01 -13	075	-13.077 -13.085	
86.00-1.91E 86.10-1.91E	01-2.08± 01-2.09±	01 -13		-13.093	
85.20-1.92E	01-2.10	01 -13	. 694	3,099	
86.30-1.93E	01-2.11	A4 -41	000	-13.105	
86.40-1.93E	01-2.12	01 -13	103	-43.109	
86.50-1.94E	01-2.12	01 -13	. 106	-13.113	
86.60-1.94E	01-2.132		109	-13.115	
86.70-1.95E	01-2.142		110	13,116	
86.90-1.96E	01-2.15		110	-13.116	
87.00-1.97E	01-2.16			-13.114	
87.10-1.97E	01-2.178	01 -13	107	-13.111	
87.20-1.98E	01-2.175	01 -13	1.105	-13.108	
87.30-1.99E	01-2.182		103	-13.105	
87.80-1.99E	01-2.192			-13.101	
87.50-2.00E 87.50-2.01E	01-2.208			-13.096 -13.092	
87.70-2.02E	01-2.23	01 -13	.694	-13.000	
87.80-2.03E	01-2.24		.688	-13,084	
87.90-2.04E	01-2.25		086	13,081	
88.00-2.05E	01-2.27		1.084	-13.078	14.5
88. 10-2.06E	01-2,28	01 -13	.083	-13,076	
88.20-2.07E	01-2.298	01 -13	.682	-43.075 IV _:	34

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88.30-2.09E 01-2.312 01 -13,083 -73,075
88.40-2.10E 01-2.32E 01 -13.083 -13.076
88.50-2.11E 01-2.34E 01 -13.085 -73.077
88.60-2.12E 01-2.35# (1 -13.087 -13.080
88.70-2.13E 01-2.37E 01 -13.091 -13.084
88.80-2.14E 01-2.38E 01 -13.694 -13.088
88.90-2.15E 01-2.39E 01 -13.099 -13.094
89.00-2.16E 01-2.41E 1 -13.103 -13.100
89.10-2.17E 01-2.42E 01 -13.108 -13.106
89.20-2.17E 01-2.43E 01 -13.113 -13.113
89.30-2.18E 01-2.43E 01 -13.118 -13.119
89.40-2.19E 01-2.44E 01 -13.123 -13.126
89.50-2.192 01-2.452 01 -13.128 -13.132
89.60-2.20E 01-2.45E 01 -13.132 -13.138
89.70-2.20E 01-2.46E 01 -13.436 -13.142
89.80-2.20E 01-2.46E 11 -13.139 -13.146
89.90-2.21E 01-2.47E 01 -13.141 -13.149
90.00-2.21E 01-2.55E 01 -13.142 -13.511
90.10-2.21E 01-2.56E 01 -13.143 -13.513
90.20-2.21E 01-2.56E 01 -13.142 -13.513
90.30-2.22E 01-2.56E 01 -13.141 -13.513
90.40-2.22 01-2.578 01 -13.139 -13.512
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90.60-2.22E 01-2.58E 01 -13.133 -13.507
90.70-2.23E 01-2.59E 01 -13.129 -13.504
90.80-2.23E (1-2.59E (1 -13.125 -13.501
90.90-2.242 01-2.602 01 -13.120 -13.498
91.00-2.24E 01-2.61E 01 -13.115 -13.494
91.10-2.25E 01-2.62E 01 -13.110 -13.491
91.20-2.25E 01-2.63E 01 -13.106 -13.489
91.30-2.262 01-2.652 01 -13.101 -13.487
91.40-2.27E 01-2.66E 01 -13.097 -13.486
91.50-2.27E 01-2.67E 01 -13.093 -13.485
91.60-2.28E 01-2.69E 01 -13.089 -13.486
91.70-2.29E 01-2.70E 01 -13.086 -13.488
91.80-2.30E (1-2.72E 1 -13.084 -13.491
91.90-2.31E 01-2.73E 01 -13.082 -13.496
92.00-2.32E 01-2.74E 1 -13.081 -13.501
92.10-2.32E 01-2.76E 01 -13.080 -13.508
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92.30-2.34E 01-2.78E 01 -13.082 -13.524
92.40-2.35E 01-2.79E 01 -13.083 -13.533
92.50-2.36E 01-2.80E 01 -13.085 -13.543
92.60-2.36E 01-2.81E 1 -13.087 -13.552

92.70-2.37E 01-2.82E 01 -13.090 -73.562

92.80-2.37E 01-2.82E 01 -13.093 -13.571

92.90-2.38E 01-2.83E 01 -13.095 -13.579

93.00-2.38E 01-2.83E 01 -13.097 -13.587
93.10-2.382 01-2.842 01 -13.099 -13.594
93.20-2.39E 01-2.84E .1 -13.101 -13.599
93.30-2.39E 01-2.84E 01 -13.102 -13.603
93.40-2.39E (1-2.84E 1 -13.103 -33.606
93.50-2.39E 01-2.852 01 -13.102 -13.608
93.60-2.39E 01-2.85E 01 -13.401 -13.608
93.70-2.39E 01-2.85E 01 -13.099 =13.607

93.80-2.39E 01-2.86E 01 -13.097 =13.605

93.90-2.39E 01-2.86E 01 -13.093 =13.602

94.00-2.39E 01-2.86E 01 -13.089 =13.598
94.10-2.40E 01-2.87E 01 -13.085 -13.593
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94.20-2.408 01-2.888 01 -13,678 -13,587	
94.80-2.402 01-2.88 01 -13.673 -13.542	
94.40-2.402 01-2.808 01 -13,667 -13,876	
94.80-2.402 01-2.88 04 -13.673 -13.542 94.40-2.402 01-2.89 04 -13.667 -13.576 94.50-2.402 01-2.90 04 -13.664 -13.570 94.50-2.412 01-2.922 04 -13.654 -13.565	
94.50-2.412 01-2.928 01 -13,654 -13,565	
94.70-2.412 01-2.938 01 -13.647 -13,589	
94.70-2.418 01-2.938 01 -13.647 -33,589	The same of the sa
94.80-2.422 01-2.848 01 -13.640 -13.555	
94.90-2,422 01-2,954 01 -13,434 -13,581	
95.00-2,438 01-2.978 01 -13,628 -13,548	
95.10-2,432 01-2.994 01 -13,422 -13,546	
95.20-2.442 01-3.608 01 -13.616 -13.546	414
95.80-2.458 01-3.628 01 -13.611 -13.546	
95.40-2,452 01-3.038 01 -13,606 -13,546	
95.50-2,46R 01-3.054 01 -13.602 -13.582	
95.40-2,472 01-3.078 01 -12.999 -13.556	
95.70-2,47E 01-3.08 01 -12,496 -13,562 95.00-2,48E 01-3.108 01 -12,494 -13,569	
95.00-2,498 01-3.418 01 -12,492 -13,576	
96.50-2.492 01-3.425 01 -12,591 -13,585 96.70-2.502 01-3.435 01 -12,591 -13,593	
96.00-2.492 01-3.423 01 -12,991 -13,505 96.10-2.502 01-3.433 01 -12,491 -13,593	
96.20-2,502 01-3,148 01 -12,590 -13,602	
96.20-2.50x 01-3.148 01 -12.490 -13.602 96.30-2.51x 01-3.458 01 -12.490 -13.610	
96.40-2.512 01-3.168 01 -12.990 -43,618	
96.40-2.51E 01-3.160 01 -12.990 -13.618 96.50-2.52E 01-3.170 01 -12.990 -13.625	
96.60-2.522 01-3.472 01 -12.990 -13,632	THE RESERVE OF THE PARTY OF THE
96.70-2.528 01-3.488 04 -12.490 -13.636	
96.80-2.522 04-1.484 04 -12.489 -11.640	
96.00-2,522 01-3.488 01 -12,888 -13,640	
96.90-2,522 01-3.193 01 -12.986 -13,642 97.00-2,522 01-3.193 01 -12.986 -13,642	
97.10-2,52E 01-3.20E 01 -12,984 -13,641	
97.10-2,822 01-3.200 01 -12,984 -13,641	
97.20-2.528 01-3.208 01 -12.981 -13.639	
97.30-2,522 01-3.218 01 -12.977 -13.635	
97.40-2.528 01-3.218 01 -12.973 -13,629	
97.50-2,528 01-3.228 01 -12,968 -13,622	
97.00-2.522 01-3.238 01 -12,962 -13,615	
97.70-2.522 01-3.244 01 -12.955 -13.606	
97.80-2.522 01-3.258 01 -12.948 -13.597	
97.90-2.522 01-3.262 01 -12.941 -13.587	
98.00-2.532 01-3.278 01 -12.933 -13,576	
98.00-2.53E 01-3.27 01 -12.933 -13.576 98.10-2.53E 01-3.298 01 -12.925 -13.566	
98.20-2.53E 01-3.308 01 -12.916 -43.556	
98.30-2.53E 01-3.32E 01 -12.907 -13.546	
98.40-2.54E 01-3.32E 01 -12.899 -13.546	
00' 50-0' 500 04-0 044 04 -40' 000 -20' 500	
98.50-2.542 01-3.362 01 -12.890 -13.528	
98.50-2.542 01-3.382 01 -12.881 -13.521	
98.70-2.55E 01-3.41# 01 -12.873 -13.515	
98.80-2,552 01-3.438 01 -12,865 -13,510	
98.90-2.56E 01-3.86E 01 -12.858 -13.506	
99.00-2.56E 01-3.48B 01 -12.851 -13.504	A STATE OF THE STA
99.10-2.57E 01-3.51# 01 -12.844 -43.504	
99.20-2.57E 01-3.53E 01 -12.838 -13.505	THE CONTRACTOR OF THE TAX THE TAX OF THE TAX
99.30-2.582 01-3.562 01 -12.832 -43.508	
99.40-2.592 01-3.582 01 -12.827 -43.512	
99.50-2.59E 01-3.61E 01 -12.823 -13.518	A REPORT OF THE PARTY OF THE PA
99.60-2.60E 01-3.638 01 -12.819 -13.524	
99.60-2.602 01-3.638 01 -12.819 -13.524	
99.70-2,60E 01-3.65E 01 -12.815 -13.532	
99.80-2.612 01-3.672 01 -12.812 -43,539	
99,90-2,612 01-3,692 01 -12,809 -13,547	
100.00-2.61E 01-3.70E 01 -12.806 -13.554 IV-36	

	100,1	0-2,622	01-3.72	10	-12, 804	-13,560		
			01-3.74	01	-12,801	-13,544		
	100.3		01-3.758	01	-12,799	-13,567		CVI CVI CVI CVI
			01-3.768	01	-12.796	-43.547		
	100.5	0-2.622	01-3.77	01	-12,796 -12,792 -12,789 -13,785	-13,567		
			01-3.796	01	-49 440	-13,561		
					-10,10,			
		0-2.622	01-3.00	07	-16,705	-73,584		
			01-3.818	01	-12,780	-13,505		
		0-2.622	01-3.829	04	-12,775	-13,533		
	101.0	0-2,622	01-3.845	09	-18,769	-13,517		
	101.1	0-2.622	01-3.85	01	-12,762 -12,755 -12,747	-13.498		
			01-3.875	01	-12.755	-43,478		
	101.3	0-2,628	01-3.694	01	-15 949	-13,454		
			01-3.91	01	-12.739	-13.420		
			01-3.949					
				01	-12.730			
			01-3.96	01	-12,720	-13,369		
			01-3.99	01	-12,711	-13,336		
			01-4.025	01	-12.700	-13,301		
	101.0	0-2.62E	01-4.06	01	-12.690	-13,263		
	102.00	0-2.63E	01-4.091	01	-12.679	-13,224		
-			01-4.13	01	-12.669			
		0-2.63E	01-4.181	01	-12,656	-43,134		
		0-2.632	01-4.22	- 14	-12.647			
				01		-13.092		
		0-2,642	01-4.27	0	-12,637	-13,003		
		0-2.64E	01-4.329	01	-12.626	-12,992		
_		0-2.64E	01-4.37	31	-12.616	013,434		
	102.70	0-2.65E	01-4.425	01	-12.607	-12,882		
	102.80	0-2.65E	01-4.48	01	-12.597	-12.823		
			01-4.545	01	-12.588	-12,760		
		0-2.66E	01-4.598	01	-12.580	-12.694		
		-2.67E	01-4.65	01	-12.572	-12.624		
						-40' 544		
	103.2	002.072	01-4.70	01	-12,565	m12,551		
			01-4.75	01	-12.558	042,475		
		0-2,68E	THE RESERVE OF THE PARTY OF THE	01	-12.551	-12.396		
	103.50	0-2.69E	01-4.83	01	-12.545	-12,315		
	103.60	0-2.69E	01-4.868	01	-12.539	-12.235		
	103.70	0-2.69E	01-4.87	01	-12.534	-12.154		
			01-4.88	01	-12.528	-12.077		
		0-2.70E	01-4.882	01	-12,523	-12.003		
			01-4.87	04	-43 448	-11,934		
			01-0.07	01	-12,518 -12,512	1,870		
		0-2.70E	01-4.852	01	-12.512	-11.070		
	100.8	0-2.70E	01-4.82	09	-12,507	91.013		
	100.30	0-2.70E	01-4.79	01	-12.501	-11.761		
	104.40	0-2.70E	01-4.74	19	-12,495	-11,715	Service of	
		0-2.70E	01-4.70	01	-12,468	-11.673	\$100 A S S A R R	
		0-2.70E	01-4.65\$	01	-12,688	-11,636		
		0-2.702	01-4.59	01	-12.673	£11.601		
	104.8	0-2.70E	01-4.54	01	-12.465	-11.569		
		0-2,70E	01-4.482	01	-12.856	-11,538		
		0-2,702	01-4.428	01	-12.446	-11,509		
			01-4.37		-12.836	611.481		10-10-00-01
		0-2,70E		01				
		0-2,702	01-4.318	41	-12.426	-11.453		
		0-2.702	01-4.26	01	-12,415	-11.426		
	105.0	0-2.702	01-4.208	11	-12.403	-11.309		
		0-2.702	01-4.45	01	-12.392	-11.372		
		0-2.70	01-4.10	01	-12,379	-11,345		
		0-2.702	01-4.06	01	-12.367	317:319	Montara.	THE CHARLES
		0-2.70E	01-4.01	01	-12,354	-14' 202		
						1	-37	
	105.90	0-2.702	C1-3.978	01	-12.341	-11.267	-37	

106.00-2,708 01-3.930 01 -12,320 -11,241	
106.10-2.702 01-3.892 01 -12.315 -11.217	
	- MAY, BALL ZAS LANDY, DE-
106.30-2.712 01-3.828 01 -12.590 -41.169	459, Tall 508, DAIR 357
108.40-2.718 01-3.798 01 -12,277 -11,146	
106.40-2.718 01-3.768 01 -12.265 -11.125	ASA, ALVE MENTIONE DOS
106.40-2.728 01-3.738 01 -12.253 -11.104	
106.70-2.728 01-3.718 04 -12,241 -11,085	
100.00-2,728 01-3.698 01 -12,230 -11,067	
106.00-2.728 01-3.668 01 -12.230 -11.080	
107.00-2.738 01-3.648 01 -12.209 -11.035	
107.10-2,742 01-3.628 01 -12,199 -11,021	
107.20-2.748 01-3.618 01 -12,189 -11,009	
107.20-2.748 01-3.618 01 -12,189 -11,009 107.30-2.748 01-3.898 01 -12,180 -10,999	
107.40-2,75E 01-3.50E 01 -12,171 -10,990	
107.40-2.75E 01-3.56E 01 -12.162 -10.983	
107.60-2.75E 01-3.55E 01 -12,154 -10,977	
107.80-2.762 01-3.828 01 -12.437 -10.970	
107. 90-2.76E 01-3.50 01 -12.129 -10.949	
108, 10-2, 762 01-3, 498 01 -12, 121 -10, 969	
108.30-2.762 01-3.462 01 -12.104 -10.972	
108.20-2.762 01-3.862 01 -12,104 -10.972 108.30-2.762 01-3.842 01 -12,695 -10.975 108.80-2.762 01-3.832 01 -12,686 -10.978	
108.40-2.762 01-3.432 01 -12.086 -10.978	
108.50-2.762 01-3.411 01 -12.676 -10.982	
108.60-2.762 01-3.399 01 -12.666 -10.985	
108.70-2,752 01-3,38% 01 -12,055 -10,988	- Cas salv sas cant the
108.70-2,75E 01-3,38k 01 -12,055 -10,988	
108.80-2.75E 01-3.86B 01 -12.644 -10.991	
109.00-2.752 01-3.321 01 -12.021 -10.996	
109.10-2,758 01-3.808 01 -12,608 -10,997	
109.20-2.758 01-3.288 01 -11,995 -40,998	
109.30-2.752 01-3.264 01 -11,982 -10,998	
109.40-2.752 01-3.242 01 -11.968 -10,997	
109.80-2.742 01-3.234 01 -11.954 -10.996	
109.80-2.742 01-3.218 01 -11.940 -10.993	
109.70-2.742 01-3.192 07 -11.925 -10.990	
109. 00-2,742 01-3.172 01 -11,910 -10,987	
109.90-2.742 01-3.162 01 -11.895 -10.983	
110.00-2.742 01-3.142 01 -11.880 -10.978	
110.10-2.752 01-3.434 04 -11,865 -10,973	
110.20-2.752 01-3.118 01 -11.850 -10.968	
110.20-2.752 01-3.112 01 -11.850 -10.968	867, nero. 201, 1-02, #05
110.00-2.752 01-3.098 04 -14,820 -40,958	
110.60-2.752 01-3.088 01 -11.806 -10.953	
110.60-2.762 01-3.068 01 -11.792 -10.948	
110.70-2.762 01-3.062 04 -11.778 -10.944	
110.80-2.762 01-3.050 01 -11.764 -10.940	
110.90-2.762 01-3.048 01 -11.751 -10.936	
111.00-2.772 01-3.038 01 -11,738 -40,933	
111.10-2.77E 01-3.02E 01 -11.726 -10.930	08.30-27701 0:-4.288 0
111.20-2.772 01-3.028 01 -11,713 -10,928	Mos. werd Sof. Sect. Cot
111.30-2.772 01-3.018 01 -11,701 -10,927	也。但是我们是有多点,还在这个主要的是一个的。
111.40-2.782 01-3.008 01 -11.690 -10.926	
111.40-2.78E 01-3.00E 01 -11.679 -10.926	BOT. AMTO BOT. CAOR. SO!
111.50-2.762 01-2.998 01 -11.668 -10.927	100,000,000 000,000,000
111.70-2.782 01-2.988 01 -11.657 -10.928	a stare and soffice of bot
111.80-2.782 01-2.988 01 -11.646 -10.930	-11 -06
	IV-38

PARSON INC.

111.00-2,788	01-2.97	01 -11,63	-10,932
112.00-2.782	01-2.968	01 -11.62	-10,935
112.20-2.78%	01-2.95	01 -11.603	-10.942
112.80-2.782	01-2.95	01 -11.59	-10.945
112.40-2.782	01-2.93	01 -11:570	-10.949 -10.953 -10,956
112.60-2.782	01-2.928	01 -11,55	-10,956
112.70-2.782	01-2.91	01 -11.546	
112.50-2.772	01-2.90	01 -11.520	-40.965
113.00-2.77E	01-2.898	01 -11.50	-10.98
113.40-2.775	01-2.87	04 -11.673	-10.971
113.40-2.762	01-2.86	01 -11.85	-10.972
113.50-2.76E	01-2.85	01 -11.63	-10,973
113.60-2.76E	01-2.84	01 -11.615	-10.973
113.70-2.76E	01-2.83	01 -11.386	-10.973 -10.972
113.10-2.762	01-2.82	01 -11.372	-10.971
118.00-2.76E 118.10-2.76E	01-2.81	01 -11.336	
114.30-2.762	01-2.80	01 -11.323	-10,966
114.30-2.76E	01-2.80	01 -11.307	=10.964
114.40=2.762	01-2.79	01 -11.291 01 -11.275 01 -11.255	=10,963 =10,961 =10,960
114.60-2.762	01-2.79	01 -11,259	-10.960
114.70-2.76E	01-2.79	01 -11.243	
114.90-2.76E	01-2.782	01 -11.212	-10.958
115.00-2.76E	01-2.78	01 -11.197	m10.95/
115.20-2.77E	01-2.782	01 -11. 168	#10. Y30
115.30-2.772	01-2.78	01 -11.454	-10.960
115.80-2.77E	01-2.78	01 -11.140	-10.961
115.60-2.78E	01-2.788	01 -11.116	-10.966
115.70-2.782	01-2.78	01 -11.40	a10.968
115.80-2.78E 115.80-2.78E	01-2.78	01 -11.075	-10,975
116.00-2.78E	01-2.782	01 -11.663	-10.9/9
116.30-2.78E	01-2.78	01 -11.636	-10.987
116.30-2.782	01-2.78	01 -11.026	-10.992
116.40-2.78E 116.50-2.78E	01-2.782	01 -11.004	11.000
116.60-2.78E	01-2.782	01 -10,989	-11.004
116.70-2.78E	01-2.78	01 -10.976	
116.90-2.782	01-2.78	01 -10.545	-11.016
117.00-2.78E	01-2.78	01 -10.93	
117.10-2.77E	01-2.78	01 -10.922	-11.025
117.20-2.77E 117.30-2.77E	01-2.782	01 -10.893	-11.027
117.40-2.77E	01-2.77	01 -10.875	
117.60-2.77E	01-2.78	01 -10,846	-11,033
117.70=2.775	01-2.782	01 -10.832	1 -41.034 I

117, 10-2, 768 01-2.70 01 -10, 816 -11,035
117, 00-2, 762 01-2.781 01 -10, 816 -11, 035 117, 00-2, 762 01-2.781 01 -10, 800 -11, 036
118.40-2.76x 01-2.784 01 -10.766 -11.037
118.20-2.76x 01-2.700 01 -10.732 -11.037
118.40-2,768 01-2.408 01 -10,914 -11,038
118.80-2,762 01-2.808 01 -10.914 -11.038 118.80-2,762 01-2.808 01 -10.697 -11.039
118.80-2.77# 01-2.83# 01 -10.645 -11.042 118.80-2.77# 01-2.83# 01 -10.627 -11.044
118, 80-2, 778 01-2, 838 01 -10, 627 -11, 044
119.00-2.77% 01-2.838 01 -10.810 -11.046 119.40-2.77% 01-2.84% 01 -10.893 -11.049
119.20-2.772 01-2.858 01 -10.575 -11.082
119,30-2,788 01-2.868 01 -10,559 -11,055
119.40-2,782 01-2.878 01 -10.542 -11.049
119, 80-2, 782 01-2, 883 01 -10, \$25 -31, 064
119.00-2.782 01-2.898 01 -10.809 -11.049 119.70-2.792 01-2.908 01 -10.493 -11.074
119,70-2,798 01-2,900 01 -10,493 -11,074
119.00-2.792 01-2.010 01 -10.477 -11.000
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120.00-2.802 01-2.032 01 -10.845 -11.093
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120,80-2,818 01-2.988 01 -10,369 -11,132
120.50-2,612 01-2.592 01 -10,353 -11,140
120,70-2,618 01-J.018 01 -18,334 -41,144
120.80-2.812 01-3.028 01 -10.323 -11,186
120,0002,020 0103,030 01 010,307 011,165
121.00-2.022 01-3.048 01 -10.292 -11,173
121.10-2.828 01-3.658 01 -16,276 -11,181
121.70-2.828 01-3.068 01 -10.260 -11,100
121,30-2,528 01-3,078 01 -10,244 -11,190
121.40-2.622 01-3.698 01 -10.227 -11,203
121.00-2.628 01-3.408 01 -10.211 -41.211
121.00-2.628 01-3.128 01 -10.193 -11.218
121.70-2.82E 01-3.138 01 -10.176 -11.225 121.80-2.82E 01-3.158 01 -10.158 -11.232
121.80-2.82E 01-3.45E 01 -10.458 -11.232
121.90-2.82E 01-3.465 01 -10.440 -11.239 122.00-2.82E 01-3.485 01 -10.421 -11.246 122.10-2.82E 01-3.205 01 -10.102 -41.283
122.00-2.028 01-3.188 01 -10.121 -11.246
122.10-2.822 01-3.201 01 -10.102 -11.283
122.20-2.622 01-3.222 01 -10.083 -11.261
122,30-2,822 01-3.244 01 -10.063 -11.269
122.40-2.622 01-3.263 01 -10.643 -11.276
122.00=2.02E 01=3.29E 01 =10.022 =11.207
122.50-2.82E 01-3.31E 01 -10.601 -11.297
122.70-2.832 01-3.944 01 -9.980 -11.308
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159.40-51928 01-31928 01 491919 4411398
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123.20-2,838 01-3,508 01 -9,670 -11,385
123.10-2.83E 01-3.66E 01 -0.893 -11.366 123.20-2.83E 01-3.50E 01 -0.870 -11.385 123.20-2.83E 01-3.53E 01 -0.84E -11.407
123,80-2,842 01-3,614 01 -9,802 -31,488
123.60-2.842 01-3.658 01 -9.779 -11.449 IV-40

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123, 70-2, 848 01-3, 698 01	-0,157 -11,524
123.80-2.882 01-3.734 01	
123.00-2,652 01-3.764 01	-0,711 -11,600
128.00-2.852 01-3.828 01	-0,866 -11,384 -0,665 -11,708 -0,842 -11,767 -0,619 -11,832 -0,597 -11,902
120.40-2,852 01-3.862 01	-6. 468 -41. 70A
124.80-2.862 01-3.948 01	-9.619 -11.832
124.40-2,862 01-3.984 01	-0.497 -41.902
124.30-2.862 01-4.012 01	-0.574 -11.978
124.50-2.872 01-4.048 01	-9,551 -42,089 - A REPLACE OF THE PROPERTY OF
128.70-2.872 01-4.068 01	-0.829 -12.144 -0.506 -12.232 -0.484 -12.323
124.80-2,87E 01-4.08E 01	-6' 444 -43' 333
124. 10-2.872 01-4.092 01	-y, 604 m12, 323
125.00-2.882 01-4.104 01	-9,462 -72,415
725.40-2.882 01-4.092 01	-9.840 -42.506
	-0,817 -12,506
125.80-2.882 01-4.078 01	-9.395 -42.086
125.40-2.882 01-4.068 01	-0,373 -12,760
125.50-2.882 01-4.032 01	-9.351 -12.849
125.50-2.882 01-4.018 01	
125.70-2.882 01-3.982 01	-9,306 -12,999
125.80-2.882 01-3.958 01	-1,284 -13,000
125.00-2.682 01-3.922 01	-0.262 -43.133
122.40-2:004 01-3:028 01	-9.262 -13.133
126,00-2,882 01-3.889 01	-9,239 -43,195 -9,216 -43,282
126.10-2.882 01-3.858 01	99.216 -43.282
126.80-2.878 01-3.818 01	-9, 194 -13, 306
126.30-2.872 01-3.783 01	-9, [7] -[3,387
126.80-2.87E 01-3.74E 04	-9.148 -13.405
126.50-2.872 01-3.708 01	
	-0,140 -13,405 -9,124 -13,480 -9,101 -13,492
126,40-2,862 01-3,668 01	-7,101
126.70-2.862 01-3.632 01	-9,077 -13,531
126,80-2,862 01-3,898 01	-9,077 -43,531 -9,654 -13,567
126.90-2.852 01-3.558 01	-9.030 -(3.601
	73.000
127.00-2.852 01-3.528 01	-0.006 -13.632
127.10-2,852 01-3.482 01	-0.981 -13.661
127.80-2.848 01-3.448 01	-0,957 -43,600
	-0,933 -13,713
	-0,733 013,713
127.40-2.838 01-3.378 01	-0,900 -13,736
127.50-2.832 01-3.348 01	40.883 413.787
127.60-2,632 01-3.314 01	-1.490 -71.776
100.00	-0,859 -13,776 -6,834 -13,794
127.70-2.828 01-3.288 01	-0,030 -13,794 MARKET M
127.50=2.822 01=3.252 01	-8.809 -43.811
127.90-2.812 01-3.228 01	40,784 43,825
	_0' 050 _40' 830
128.00-2.612 01-3.198 01	
128.10-2,802 01-3.162 01	-0, 134 -13, 852
128.20-2,802 01-3.439 01	-6.710 -13.093
128,30-2,802 01-3,119 01	-8,685 -13,874
128.40-2,792 01-3.084 01	
100,000,000,000,000	-8.660 -33.884 -8.636 -33.893
128.50-2,792 01-3.664 01	-8.636 -(3).893
128.40-2.782 01-3.042 01	
128.70-2.782 01-3.028 01	-8,612 -13,901 -8,588 -13,909
	-4'44" -10'044
128.80-2.782 01-2.998 01	-0,564 -73,916
128.90-2.772 01-2.988 01	08.540 043.923
129,00-2,772 01-2,968 01	-0.417 -13.910
111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0,517 -13,930
129.10-2.772 01-2.948 01	-0,494 -13,936
129.70-2,762 01-2,028 01	-8,517 -13,930 -8,494 -13,936 -8,471 -13,942
127.80-2.762 01-2.918 01	-8.048 -43.94
129.40-2.768 01-2.898 01	
120,000,000,000,000,000	
129.40-2.752 01-2.882 01	#8'.804 #43'.960 IV-41

120, 10-2, 788 01-2, 468 01 -6, 183 -13, 866	
129.10-21788 01-2.654 01 -6, 161 -13, 973	
129, 10-2, 742 01-2, 848 01 -8, 339 -43, 978	
130.40-2.748 01-2.828 01 -8,298 -13,990	
130.10-2.748 01-2.828 01 -8.298 -13.990	
130.20-2:732 01-2:795 01 -0,250 -14:002	
130.80-2.722 01-2.752 01 -8.215 -18.015	
130.80-2,728 01-2.778 01 -8,199 -14,022	
130.70-2.722 01-2.752 01 -8.180 -14.020	
130.80-2.728 01-2.768 01 -8,180 -14,029 130.70-2.718 01-2.758 01 -8.161 -14,036 130.80-2.718 01-2.748 01 -8.142 -14,043	
130,80-2,712 01-2,748 01 -8,124 -14,080	
111 00-2 112 01-2 114 01 -1 101 -14 017	
131,10-2,702 01-2,728 01 -8,687 -14,064	
131.20-2.702 01-2.724 01 -8.669 -14,071	
131,30-2,708 01-2.718 01 -0.651 -14.070	
131.80-2.69% 01-2.71% 01 -4.033 -16.053	
114 10-2 407 01-2 407 01 -7 407 -14 000	
131,70-2,602 01-2.698 01 -7.979 -14.106	
111.10-2.482 01-2.492 01 -7.961 -48.113	
131,00-2,682 01-2,684 01 -7,443 -14,120	
132.00-2.66E 01-2.68E 01 -7.924 -14.126	
137,10-2,672 01-2,678 01 -7,908 -14,133	
132.20-2,672 01-2.678 01 -7,888 -14,139	
132.40-2.67E 01-2.67E 01 -7.670 -44.145	
132.40-2.662 01-2.668 01 -7.851 -14.151 132.50-2.662 01-2.668 01 -7.833 -14.157	
137.50-2.662 01-2.668 01 -7.814 -14.162	
132.70-2.66E 01-2.66E 01 -7.795 -14.16E	
132. 002.662 0122.668 01 97.776 044.173	
132,90-2,66E 01-2,66E 01 -7,757 -14,179	
13J.0002.05E 0102.00B 01 47.730 810.104	
133.10-2.65E 01-2.66E 01 -7.719 -14.189	
133.30-2.652 01-2.662 01 -7.699 -46.194 133.30-2.652 01-2.662 01 -7.679 -46.199	
133.80-2.652 01-2.672 01 -7.650 -14.204	
123 80-2 488 04-2 474 04 -9 440 -44 200	
133.00-2.65E 01-2.68E 01 -7.620 -14.214	
139.70-2.65x 01-2.68x 01 -7.599 -14.219 139.80-2.66x 01-2.69x 01 -7.579 -14.224	
499 84-2 449 04-2 404 04 -0 488 -14 298	
133.90=2.66E 01=2.69H 01 =7.558 =44.229 138.00=2.66E 01=2.70B 01 =7.538 =44.235	
130.10-2.66E 01-2.71E 01 -7.517 -14.241	
49/1 94 6 229 44-8 946 44 -9 1106 -4/1 747	
434 10-2 479 04-2 724 04 -9 476 -74 283	
134.40-2,672 01-2.738 01 -7.654 -14,259	
138.50-2.67E 01-2.788 01 -7.632 -18.266	
130.90-2.678 01-2.758 01 -7.611 -14.674	
138.70-2.682 01-2.77# 01 -7.389 -14.281 138.80-2.682 01-2.788 01 -7.367 -14.289	
134 BA-2: 400 A4-2 400 A4 -9 bus -74 200	
135.00-2.692 01-2.818 01 -7.323 -44.307	
125.20-2.702.04-2.848.047.27844.327	
135.40-2.718 01-2.878 01 -7.232 -14.349 TV A2	

	135, 40-2, 728	01-2.898 01	-7,209 -1	14:361		
	135. 60-2.728	01-2.918 01	-7.186			
	138.70-2.738			4,300		
-	135.00-2.748		-7, 138 +1	0,002		
	135.00-2.748		-7. 114 -7	4.417		
	136.00-2.752	01-2.998 01	-7.009 -	14.434		
	136.10-2.758	01-3.029 01	-7.064 -1	6,481	And the second second	
	136,80-2,768	01-3.041 01	-7.039 mi	4 440		
	136.80-2,77R			Ti II		
			-7.013 at			
-	136,80-2:772		-0,907	4,509		
	136.40-2.781	01-3.428 01	-6.961 -1	14.530		
	136,60-2,798	01-3.144 01	-6,934 -7	4.553		
	136.70-2.792	01-3.178 01	-6.907 -	4.574		
	136.80-2.80E		-6,879	4,553 4,578 4,604		
				6,000		
		01-3.238 01	-6,850 -6,822 -6,792 -	0,032		
	137.00-2.812		-6,822 -	4,662		
	137.10-2,828	01-3.308 01	-6.792 -1	14.694		
	137.30-2:828	01-3.338 01	-6.762 -1	4.729		
-	137.80-2,838		-6.732 -1	6,766		
	137.40-2,832	04-3 404 64	-6,701 -1	" 407		
				5,007		
	137.00-2:838		-6.670 -	0,001		
	137.50-2.84E	01-3.488 01	-6,638 -	14,899		
	137.70-2.842	01-3.518 01	-6,605 -1	4,899		
	137.80-27852	01-3.55# 01	-6,572 -	5.010		
	137.90-2:852	01-3.599 01	-6.538 -	5.073		
	138,00-2,852	01-3.631 01	-6.504 -1			
	130,0002,000	0100,030 01				
	130,10-2,852			5.218		
	138.20-2,852		-6,435 -	5,300		
	138.30-2:862	01-3.728 01	-6.199 -1	5,389		
	138,40-2,862	01-3.742 01	-6, 163 -1	5'. 484		
-	138.40-2.852		-6.327 -1	5.544		
			-4' 400	2 403		
	138,80-2,85E		-6.290 -6	3,001		
	138,70-2,852		-0.354 -1	5,703		
	138, 00-2, 85E		-6,217 mi	5,898		
	138.00-2.65E	01-3.748 01	-6.179 -1	6.001		
	139.00-2:842		-6.142 -1	6.099		
	139.10-2.842		-6.105 -1	4400		
	139.20-2.842		-6.067	6,278		
		01-3.592 01	-6.030 -1	6.357		
	139,40-2,822	01-3,55# 01	-5,993 -4	6.429		
	139. 50-2-822	01-3.50# 01	-5.956 mi			
	139 60-2 812	01-3.458 01	-5.919 mi			
	430 70-2 404	01-3.444 01				
	139.70-2.802		-5,882 -			
	139,80-2,802	01-3.368 01	-5.846 -	10,054		
		01-3.318 01	-5.810 m4			
	140.00-2':78E	01-3.278 01	-5.774 -	6.736		
	140, 10-2-772	01-3.228 01	-5.739 -			
	140.20-2.762		-5.704 -1			
	140,30-2,752		-5.670 -1			
	140,40-2,742		-5.636 m	6,859		+ 0 + 4 1 C + C + 1 = 0 f
-	140,80-2,732	01-3.068 01	-5.603 -1	6,883	10 · 中文中 · 安州 · ·	
	140.60-2.728		-5.570 -1	6.906		
	140,70-2:718			6.926		
			-5.550 0	6.045		
	140, 80-2, 702	01-2,964 01	-5,507 -1	0,900		
	140,90-2.692	01-2.935 01	-5.476 -	6,945		002,500,000 001,500,500
	141,00-27682	01-2.908 01	-5,446 -	16,979	10 200 2	
**	141.10-2.672	01-2.878 01	-5.416 -4	6,979	TO MENT OF	3 ( A . S = 0 0 . T = "
	444 20-2 464	01-2.848 01	-5.387 -4	7.00		
		01-2.018 01	-5,358 -	7.021 IV	LI BAR DWI	

The second second

141.60-2:632	01-2.79	01	-5,330 -5,303	-17.034
141.50-2.628	01-2.76	01	-5,303	-17.045
141.50-2.612	01-2,748	01	45,276	-17,057 -17,067
141.70-2.60E	01-2.71	01	-5.249	-17,067
141.00-2-592	01-2.698	01	-5,224	017.078
141.90-2.582	01=2.672	01	-5.198	-17.087
142.00-2.572	01-2.658	01	-5.174	-17.047 -17.097 -17.106
142.10-2:562	01-2.64	01	-5.149	-17,106
142.20-2.552	01-2.628	01	-5. 126	e47.115
142.20-2,55%	01-2.60	01	-5.102	-17, 123
142.40-2:54E	01-2.598	01	-5.679	-47.132
142.50-2,531	01-2.57	01	-5.057	-17,140
142.50-2.522	01-2.568	01	-5.635	017,140
142.50=2.522	01-2.548	01	-5.014	•17, 156
142. 0-2.50E	01-2.538	01	-4.992	m17.164
142.90-2.50E	01-2.528	01	-4,972	-17, 171
143.00-2.492	01-2.518	01	-4.951	-17.179
143.10-2.482	01-2.50	01	-4.931	•17, 179 •17, 187
143.20-2.48E	01-2.498	01	-4.911	-17, 194
143.20-2.48E 143.30-2.47E	01-2.482	01	-4.911	-17,202
143.40-2.462	01-2.478	01	-4,872	17, 194 17, 202 17, 209 17, 217
143.50-2;46E	01-2,475	01	-4.853	-17,217
143.60-2.45E	01-2.46	01	-4, 835	m17.244
143,70-2,452	01-2.452	01	-4,816	-17,231
143.80-2.442	01-2.45	01	-4,798	-17,239
143,90-2,442	01-2.44	01	-4.780	-17,246
144.00-2.442	01-2.448	01	-4.762	-17.254
144.10-2,432	01-2,43	01	-4,744	-17,254 -17,261 -17,269
144.20-2.432	01-2.438	01	-4.726	-17.269
144.20-2,432	01-2.434	01	-4,708	-17,276
144.40-2.428	01-2.428	01	-4.691	-17,284
144,50-2,422	01-2.422	01	-4,673	-17.291
144.60-2.422	01-2.428	01	-4.656	17,299 17,307 17,314 17,322
144.70-2:422	01-2.428	01	-4,656 -4,638	-17.307
144.80-2.42E	01-2.422	01	-4,621	-17,314
144.90-2.422	01-2.42	01	-4,603	-17,322
145.00-2.42E	01-2.428	01	-4.586	-17.330
145.10-2.42E	01-2.43	01	-4,568	-17,337
145.20-2.422	01-2.438	01	-4.550	-17,345
145.30-2.421	01-2.43	01	-4.532	-17,353
145.40-2.422	01-2.442	01	-4.514	-17,330 -17,337 -17,345 -17,353 -17,361
145.50-2.422	01-2.44	01	-4.496	-17.369
145.60-2.43E	01-2.452	01	-4.678	-17.377
145.70-2.43E	01-2.452	01	-4.459	-17.386
145.80-2.43E	01-2.462	01	-4.440	-17.394 -17.402 -17.411 -17.420
145.90-2.442	01-2.47	01	-4.421	-17.402
146.00-2.44E	01-2.488	09	-4.402	-17,411
146.10-2.45E	01-2.492	01	-4,382	-17,420
146.20-2.452	01-2.50	01	-4.362	-17.429
146.30-2.46E	01-2.518	01	-4.341	-17,438
146.40-2:46E	01-2.528	01	-4,320	-17.447
146.50-2,472	01-2.53	01	-4.298	=17,457 =17,467 =17,470
146,60-2,482	01-2.55	01		-17,467
146.70-2,492	01-2.56	01	-4,276	-17,478
146.80-2.49E	01-2.582	01	-4.231	-17.489
146,90-2,508	01-2.608	91	-4,207	-17,500
147.00-2.512	01-2.628	01	-4, 182	-17,512
147.10-2.522	01-2.64	01	-4.157	-17.524
147.20-2.53E	01-2.668	11	-4.131	-47.537IV-44

147.30-2.542	01-2.682	01 -4.104	-17'.551
147.40-2.55E		01 -4.676	-17,551 -17,566
147.50-2.56E		01 -4.048	m17,541
147 60-2 502	01-2.73	-4 -4	-49 500
147.60-2.582	01-2.762	01 -4.018	-17,598
147.70-2.592		01 -3.987	-47.616
147.80-2.60E	01-2.82	01 -3.955	-17.636 -17.657 -17.680
147.90-2-612	01-2.65	01 -3.922	-17.657
148.00-2.622		01 -3,888	m47.680
148.10-2.642		01 -3.852	-17.705
		-3' 045	-47 734
148.20-2.652		01 -3,815	-17,734
148.30-2.662	01-3.01	09 -3.777	-17.765
148,40-2,67E	01-3,05	01 -3,737	-17.800
148,50-2,692	01-3.102	01 -3.696	m17.839
148.60-2,702		01 -3.696 01 -3.653	-17,800 -17,839 -17,883
148.70-2.712		01 -3.609	m17,933
148.80-2.72E		01 -3,563	-17.990
148.90-2.732		-3,516	-10'066
		43,310	-18,056
149.00-2.74E	01-3.362	01 -3,467	-18, 131
149.10-2.742	01-3.42	01 -3,467 01 -3,417 01 -3,366	m48.218
149.20-2:75E	01-3.478	01 -3,366	m48,316
149.30-2.762	01-3.528	07 -3.313	-18,428
149.40-2,762	01-3.55	01 -3,260	-18,552
149.80-2.762		01 -3.205	-18,686
149 60-2 768	01-3.592	-3' 450	m18,827
149.60-2.76E	01-3.332	01 -3,150	10.027
149.70=2.76E	01-3.582	01 -3.695	-18.970
149.80-2.76E		01 -3.639	-19.108
149.90-2.752	01-3.52	01 -2.984	-19.238
150.00-2.74E	01-3.475	01 -2.929	-19.357
150.10-2.73E	01-3.412	01 -2.874	m19.462
150.20-2.722		1 -2.820	-19,555 -19,636 -19,707
150.30-2.71E		1 -2.767	-19.636
150.40-2:70E			-70 707
		01 -2.716	760
150.50-2.682		01 -2.665	-19,769
150.60-2.67E	A STATE OF THE STA	01 -2.616	-19,823
150.70-2.65E		01 -2.568	-19.870
150.80-2.63E		01 -2.522	-19.912
150.90-2.612	01-2.932	01 -2.477	=19.949
151.00-2.59E	01-2.882	01 -2.434	-19,983
151.10-2.572		01 -2.393	-20.012
151,20-2,55E	01-2.79		-20.039
131,2002,332	01-2.738		
151.30-2.53E	01-2.742	01 -2.314	-20.064
151,40-2,51E	01-2.702	01 -2,277	-20,086
151,50-2,49E	01-2.662	01 -2.242	-20.107
151.60-2.47E	01-2.622	01 -2.208	-20,126
151.70-2.45E	01-2.592	01 -2.175	-20.143
151.80-2.43E	01-2.552	01 -2.144	-20.159
151.90-2.41E	01-2.52	01 -2.114	-20, 175
152 00-2 102	01-2.492	-2.085	-20, 189
152.00-2,392	01-2,455		20, 303
152, 10-2, 37E	01-2.462	01 -2.057	=20'.202 =20'.215 =20'.227
152.20-2.35E	01-2.432	1 -2,030	420,215
152,30-2,332	01-2.402	01 -2.004	=20.227
152.40-2.31E	01-2.378	1 -1.980	<b>20.238</b>
152.50-2:30E		01 -1.956	-20.249
152,60-2,282		01 -1.932	-20,259
			-20 269
152.70-2.26E		01 -1.910	-20.269
152.90-2.25E	01-2.288	01 -1,888	-20,279
152, 90-2, 238	01-2.26	01 -1.867	-20, 288 -20, 297
153,00-2,222	01-2.248	01 -1.847	20,297
153.10-2.202	01-2.23	01 -1.827	-20'.305 IV
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\$4.5 \$87.540E.E. \$4.0 \$32.540E.E. \$4.0 \$32.540E.E. \$4.0 \$3.000E.E.

153	. 20	)=2',	192	01	-2.	2 11	0		1.	808	-20	314	
153	. 3(	-2	18E	01	-2.	191	0		11.	789	=20	. 322	
153	. 4	0-2	16E		-2,			1333	1,	771 753 735 718	=20 =20 =20	330	
153		1-2	145		-2.				4.	703	-20	337	
153	7	1-2	132		-2.				4	718	-20	352	
			125		-2.				1	702	-20	359	
153	. 9	1-2	115	01	-2.	911	9 0		14.	685	-20	.347	le le
154	.00	)-2	102		-2.				1	653 638	m20	374	
150	- 1	0-2	09E		-2.				1.	603	=20	307	
			OBE		-2.	-	**		W.	622	-20	381	
154	.4	2	07E		-2.				1	607	-20	401	
154	. 5(	1-2	07E	01	-2.	071	0		1	592	-20	407	
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154	9	0-2	05E		-2.				1	\$48 \$33	-20	427	
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155	.10	1-2	OUE	01	-2.	051	0	1 .	1.	519	-20	,447	
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155	. 3(	2-2	OUE		-2.			121	10	475	-20	467	
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			OGE	01	-2.	07	0	1	1,	385	m20,	502	
156	1	0-2	06E	01	-2,	081	0			369	-20	509 516	
156	. 20	0-2.	OTE	01	-2.	091	0		1.	337	-20	516 524 532	
156	.30	1-2	OSE	01	-2.	101	0	<u>.</u>	1.	121	-20	532	
156	. 4	0=2.	09E		-2.				1	304	-20	,540	
156	6	102	10E		-2.				1.	286	140	304	
156	.70	0-2	122		-2.				11.	269 250	-20	557 566	
156	. 1	)-2:	13E	01	-2.	171	0	•	1,	231	-20	575	
			145		-2.				1.	311	-20	575	
			15E		-2.					191	-20	, 225	
			182	01	-2. -2.	25	0	100	40	169	-20	606	
157	.30	1-2	202		-2.				1.	124	-20	630	
			22E		-2.			•	ij,	099	m20	. 643	
			23E		-2.						-20	656	
			25E		-2.					046		671	
			292		-2.					987	-20	705	
157	. 9	1-2	32E		-2.			١.	.0.	955	-20	.724	
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			39E		-2. -2.		· - 12 500			844		795	
			LUE		-2.					757		858	
158	.50	0-2.	46E	01	-2.	741	1 0			708	-20	897	
158	. 6	0-2	492		-2.			•	.0.	656	-20	941	
158		2-2,	SIE		=2.				.0.	600	-30	993	
			56E		-2. -3.				0	\$39 475	-21	128	
			582		-3,					406	-21	217	IV_4
	17.110			1000					NEW YORK			THE RESERVE	SECTION DESIGNATION

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-0.257 -21.452
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159.20-2.62E 01-3.23E 01
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159.40-2.63E 01-3.33E 01
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1.145 -23.370
1.172 -23.383
1.197 -23.396
1.221 -23.407
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1.265 m23.428
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1.620 -23.586
164.60-1.46E 01-1.46E 01
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164.80-1.45E 01-1.46E .1
                             1.640 -23.594 IV-47
164.90-1.45E 01-1.45E 01
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	445	60	-4"	45E	01-	.45	01	1,650	-22' 59	0
							01	4 660	-23,59	2
-	148	37	= ;-	45E		452		1.660	=23,60	
						.45		1.070	-23,60 -23,61	
				45E		.468		1.680	M23.01	4
				462		1.462	01	1.691	-23,61	7
	165	.50	-1.	46E	01-	1.462	01	1.701	m23.62	1 1 1 1 1 1
	165	. 60	-1.	46E	01-	1.472	01	1.712	m23,62	6
	165	70	-1.	472		1.482	01	1.723	-23,63	1
	445	No.	-1	482		.491		1.734	-52 63	6
	448	90		482				1.745		
	103	. 20	-1.	405		.50	01		23.04	
	100	.00	-1.	49E		1.518	01	1.757	-23.64	1
				502		1.528	01	1.769	m23',65	2
	166	.20	-1.	52E	01-	1.532	01	1.782	-23,65	8
	166	.30	-1.	53E	01-	,55%	01	1.795	-23,66	4
	166	. 40	m 1 a	SUE		1.562	09	1.809	-23.67	0 1
	166	50	-1	56E		.582		1.824		7
				58E			01	1.839	-23,68	4
	166	70	_ : •	60E		608				3
	100	. 10		BUE		.634	01	1,855	023,03	2
	100	. 0	-1.	62E		1.652	01	1.873	=23,70 =23,70	V .
	166	90	-1.	64E		1.682	01	1.891	-23,70	9.
	167	.00	-1.	67E	01-	1.715	01	1,011	-23,71	9
	167	. 10	-1:	67E 70E	01-	1.745	01	1,933	•23,71 •23,72 •23,74	9
	167	.20	-1.	722		1.708	01	1,956	023.74	1
	147	30	-1	768			01	1,001	-23,75	4
	149	40		792		. 068	01	2.009	-23,76	
						.014	01			
	124	ŦX	-14	111				3.046	-23347	
		- 50	• ; ;	972	010	.968	0	2,675	•23,80 •23,81 •23,85	
	111	. 70	-1,	918	01-	.034	01	3,114	923,04	•
	107	. 00	-1,	962		.001	01	2,158	023,00	0
	167	. 20	-21	QOE		151	03	2,200	-23,80	1
	168	.00	-2,	062	01-	3.334	01	2,266	m23. Y	0
	168	. 10	-2	118	01-2	1.321	01	2,133	-23.96	4
	111	. 20	-2	162		1.428	01	2.610	-24.02 -24.09 -24,20	2
	168	30	-2.	228		, 63	01	2,500	-24.09	9
	168	40	-2'	278		. 661	01	2.604	-24.20	3
				322		. 801	01	2.724	-24,34	0
				362		.04	04	2.060		
								2.000	-24 05	
-	100		-4.	382	01-	.042	01	3,012	-24,85	2
	100		-4,	398		.07	04	3, 170	•25,19 •25,53	
	100	. 40	-2,	372		.004	01	3.330	625,53	
				332		. 868	09	3,484	-25,80	0
				278		.708	01	3.625	-25.99	3
	169	.20	-2.	212	01-	1.548	01	3,752	-26,12	9
	169	.30	-21	132	01-2	1.398	01	3,862	026.22	
	169	. 40	-2:	05E	01=	2.26	04	3.957	-26.30	1
	169	.50	.1.	982		. 148		4,039	-26,35 -26,35 -26,40	7
	460	60		SOE		.031		4,109	-36.40	4
				822		.931		4.169	-26,43	4
				75E	The second of			4. 524	-26' 46	6
						1.838		4.221	-26.46	0
				68E		1.75	01	4.266	-26.49	¥
				612		. 675		4.306	920.31	LE STAR
	170	. 10	-1.	55E		1.598		4.341	-26,52	J
				48E	01-	1.528	01	4.172	-26,54	4
				432	01=	1.462	01	4.500	-26,55	8
				372		1.408	01	4.425	-26,57	0
				312	-	.341		4.640	-26,58	1
	170	.60	-15	268		. 281		4,460	026.59	
	170	70	.1.	218		. 238		4,487	-26,59 -26,60	0
	170	30		172		. 161		4.504	-26.60	
	.,0	0	- 10		0,-		•			IV-48

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171.00-1,08E 01-1.09E 01
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4,535 -26,622
                                        4.548 -26.628
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4.572 -26.640
171.20-9,92E 00-1.00E 01
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4.613 m26.658
8.621 m26.662
4.629 m26.666
4.637 m26.669
4.645 m26.673
4.658 m26.676
4.658 m26.679
4.658 m26.682
4.671 m26.685
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172.00-7:12E 00-7.44E 00
172. 10-6.82E 00-6.84E 00
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4.671 m26.685

4.677 m26.687

4.682 m26.690

4.688 m26.692

4.693 m26.695

4.698 m26.697

4.706 m26.700

4.712 m26.700

4.719 m26.707

4.719 m26.713

4.722 m26.713

4.725 m26.718

4.735 m26.721

4.735 m26.721

4.735 m26.726

4.737 m26.728
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173.20-4.05E 00-4.05B 00
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173.40-3,56E 00-3,56E 00
173.50-3.332 00-3.332 00
173.60-3:10E 00-3.10# 00
173.80-2.66E 00-2.66E 00
173.90-2:45E 00-2.45E 06
174.00-2.25E 00-2.25E 00
174.40-2.05E 00-2.05E 00
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174.30-1.66E 00-1.66E 00
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4.740 =26.731
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4.743 -26.734
174.40-1.48E 00-1.48E 00
174.50-1.30E 00-1.30E 00
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174.60-1:12E 00-1.12E 00
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174.90-6.20E-01-6.20E-01
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175.00-4.62E-01-4.62E-01
                                        4.751 =26.742
175.10-3.08E-01-3.08E-01
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                                        4.753 -26.745
175.20-1.58E-01-1.58E-01
175.30-1.202-02-1.202-02
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175.00 1:30E-01 1.30E-01
                                        4.756 -26.747
175.50 2.68E-01 2.68E-01
175.60 4.02E-01 4.02E-01
175.70 5.33E-01 5.33E-01
                                        4.757 -26.748
                                        4.757 -26'.749
4.758 -26'.749
                                        4.759 -26.750
175.80 6'.60E-01 6.60E-01
175.90 7.832-01 7.832-01
                                        4.760 -26.751
                                        4.760 -26.751
176.00 9.02E=01 9.02E=01
                                        4.761 -26.752
176.10 1:02E 00 1.02E 00
176.20 1:13E 00 1.13E 00
176.30 1.28E 00 1.24E 00
                                        4.761 -26.752
4.762 -26.753
176.40 1.352 00 1.352 00
176.80 1.452 00 1.452 00
                                        4.762 -26.753
4.762 -26.753
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176.70 1.642 00 1.642 00
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                                        4.763 -26.754 IV-49
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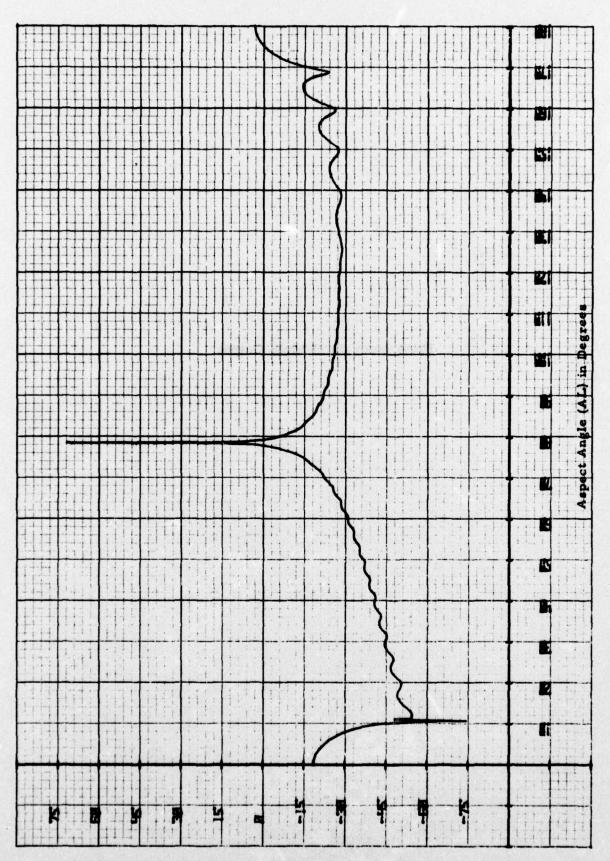
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176.90 1.432 00 1.432 06	4.763 -26.754
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177.10 2.002 00 2.608 00	4.763 -26,754
177.20 2:08E 00 2.08E 00	4,763 -26,754
177.30 2.152 00 2.152 00	4,763 m26,754
177.40 2.232 00 2.232 00	4,762 -26,754
177.50 24302 00 2.302 00	4,762 -26,753
177.80 2:372 00 2.378 00	4,762 -26,753 4,762 -26,753
177.70 2:432 00 2.432 00	4.762 -26,753
177. 10 2.492 00 2.492 00	8,761 m26.752
177.90 2.55E 00 2.55E 00	4,761 -26,752
178.00 2,61E 00 2.61E 00	4.761 m26,752 4.760 m26,751
178.10 2,66E 00 2,66E 00	4,761 m26,752 4,761 m26,752 4,760 m26,751
178.20 2.712 00 2.712 00	4.760 -26.751
178,30 2,76E 00 2,76E 00	4,759 -26,750
178.40 2.80E 00 2.80E 00	4,758 -26,750 4,758 -26,749
178.50 2.85E 00 2.85E 00	4,758 -26,749
178.60 2.892 00 2.892 00	W,73/ WZO,/40
178.70 2.92E 00 2.92E 00	4,757 -26,748
178.80 2.96E 00 2.96E 00	4.756 -26.747 4.755 -26.746
178.90 2.991 00 2.991 00	4,735 -26,746
179.00 3.01E 00 3.01E 00	4,754 -26,745
179.40 3,04E 00 3.04E 00	4,753 -26,745
179.20 3:06E 00 3.06H 00	4,753 -26,744
179.30 3.08E 00 3.08E 00	4,752 420,743
179.40 3.10E 00 3.10E 00	4.751 -26.742
179.50 3, 112 00 3.112 00	4,750 -26,741
179.60 3.132 00 3.132 00	4,749 =26,740 4,748 =26,739 4,747 =26,738
179.70 3.14E 00 3.14E 00 179.80 3.14E 00 3.44E 00	4,748 -26,739
	4,747 m26,736 4,746 m26,737
	40140 4600131
180.00 3415E 00 3.15E 00	4.745 -26.736

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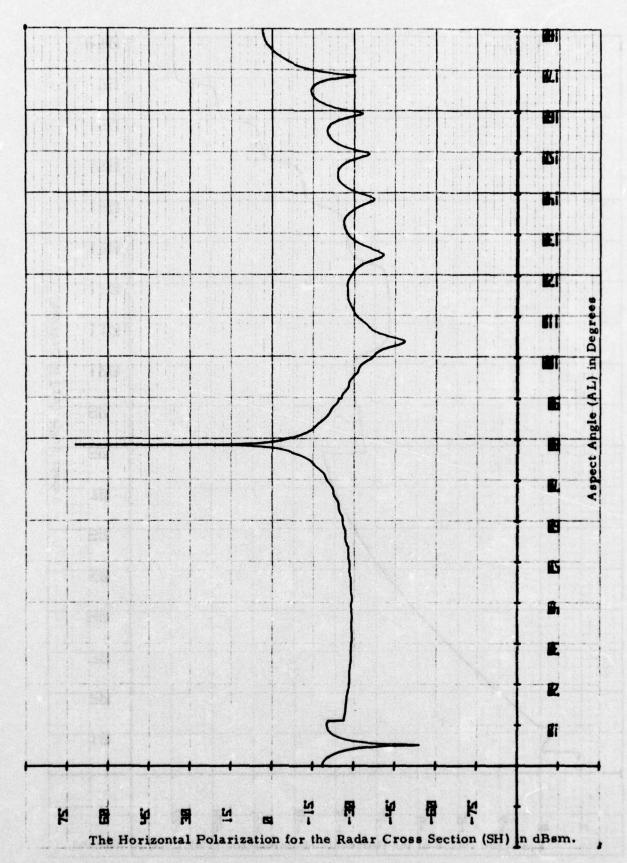
E TAU EST -DE TT BLETTO BLEFT -DE FT TO WE' ER T - DE ST

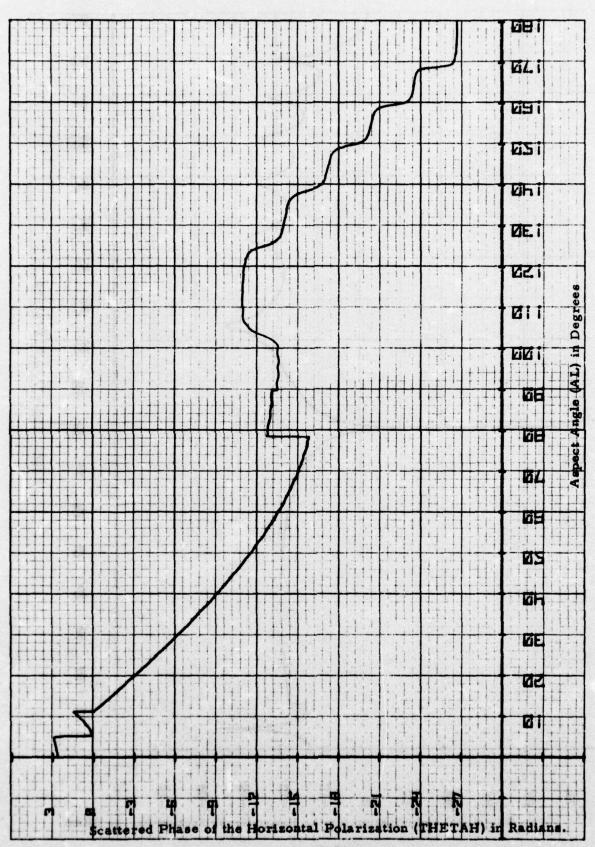
HER CHOO BEN, CHOO ETT L. LATE ELLA LOCA CON CHOO SELLA LOCA ETT MR 2000 REAL MODELLA Plots from the Sample Output TEST AND THE THE DESCRIPTION OF LEASE THE PARTY OF THE PROPERTY OF THE PROPERT



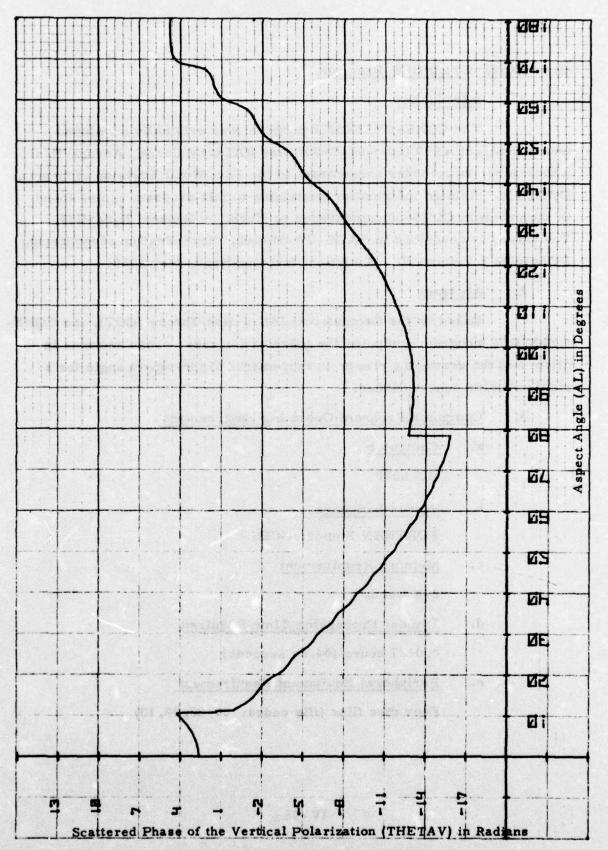
The Vertical Polarization for the Radar Cross Section (SV) in dBsm. IV-52

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IV-54



# C. CONE-CYLINDER Program

## 1. Introduction

The CONE-CYLINDER program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the program GDT06 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

#### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the CONE-CYLINDER program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular cone-cylinder.

- 3. Computer Program Operating Environment
  - a. Computer
    HIS 6000
  - b. Source Language
    FORTRAN Y under GCOS
  - c. Memory Requirement

    24K words
  - d. Typical Processing Time Required

    0.0127 hours (44.64 seconds)
  - e. Peripheral Equipment Requirement

    Four disc files (file codes: 07,08,09,10)

#### f. Subroutines Used

Subroutines obtained from SXSA subroutine file:

UPDAT

BESS

GAM

PLTGDT

Subroutines obtained from SXSB subroutine file:

TAN

#### 4. Inputs

The inputs which are needed for the executing of the CONE-CYLINDER program are as follows:

A - Radius of cylinder (inches)

Hl - Half height of cone (inches)

H2 - Half height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

## Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

variable 1 name = (value),
variable 2 name = (value),
.
.
.
variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the size of the cone,
- o vary the size of the cylinder.

### 5. Output

Output from the CONE-CYLINDER program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is,

file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

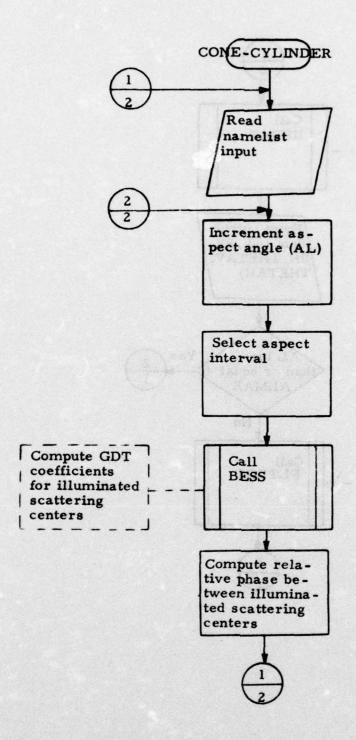


Figure IV-2Logic Flow Diagram for CONE-CYLINDER Program
(Page 1 of 2)
IV-59

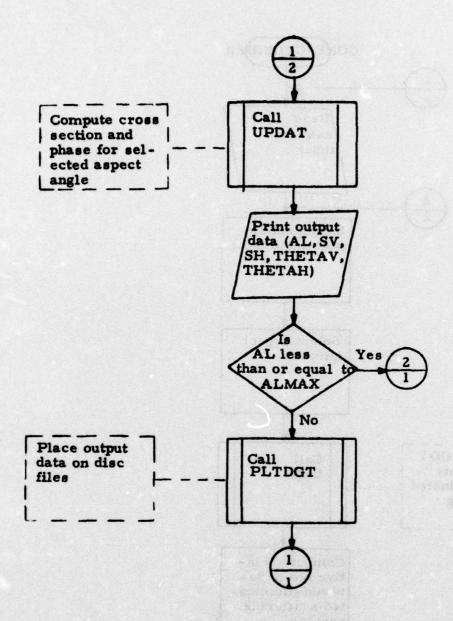


Figure N-2 Logic Flow Diagram for CONE-CYLINDER Program (Page 2 of 2)

```
CLEARY, NEUFFER , 65121104RADC
       IDENT
       USERID CLEARYSTHREE
5
       LØWLØAD
$
       ØPTIØN FØRTRAN
5
       SELECT CLEARY/0C0CY
$
               CLEARY / ØXSA
       SELECT
$
       SELECT CLEARY / ØXSB
$
       EXECUTE
$
       LIMITS 05,24K,,10K
$
                07, W. L. CLEARY / STØRE1
       PRMFL
5
                03, W, L, CLEARY/STØRE2
       PRMFL
$
                09, 1, L, CLEARY/STORE3
       PRMFL
5
               10. W. L. CLEARY/STØRE4
       PRMFL
$
                05
       DATA
 SINPUT
  A=3.16,
  H1=5.8915,
  H2=5.2565.
  CLAM=1.9754,
  DELAL=0.1.
  ALMI'1=0.0,
  ALMAX=180.0,
  AL=0.0 $
     ENDJ03
```

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HIS-6000 Batch Submittal Form

Source Listing of the CONE-CYLINDER Program

```
00001000
                       PROGRAM CONE CYLINDER (SCOCY)
                                                                                                                                       00001010
          COMMON/NAM/YY1(2600).YY2(2000).YY3(2000),YY4(2000),XX(2000),II
COMPLEX EJR1.EJR2.EJR3.EJR4.EJR5.EJR6,EJR7,EJR8,EJR9.EJR10.
                                                                                                                                       00001020
                                                                                                                                       00001030
        X RMSBV. RMSBH'. RMSV. RMSH. EJRB. ZV. ZVC. ZH, ZHC, SSV, SSH
                                                                                                                                       00001040
X RMSBV.RMSBH.RNSV.RMSH.EJRB.ZV.ZVC.ZH,ZHC.SSV.SSH

RAMELIST/INPUT/AIH1.H2.CLAM.DELAL.ALMIN.ALMAX.AL

2000 FORMAT(1M1.////49x.'INPUTS = COME CYLINDER'.

*///29x.'RADIUS OF CYLINDER IN INCHES (A) = '.F14.7.

*///29x.'HALF HEIGHT OF COME IN INCHES (H1) = '.F14.7.

*///29x.'HALF HEIGHT OF CYLINDER IN INCHES (H2) = '.F14.7.

*///29x.'WAVE LENGTH IN INCHES (CLAM) = '.F14.7.

*///29x.'INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = '.F14.7.

*///29x.'HINIMUM ESPECT ANGLE IN DEGREES (ALIN) = '.F14.7.

*///29x.'HAXIMUM ESPECT ANGLE IN DEGREES (ALIN) = '.F14.7.

*///29x.'INITIAL ESPECT ANGLE IN DEGREES (AL) = '.F14.7.

*///29x.'INITIAL ESPECT ANGLE IN DEGREES (AL) = '.F14.7.
                                                                                                                                       00001050
                                                                                                                                       00001060
                                                                                                                                       00001070
                                                                                                                                       00001080
                                                                                                                                       00001090
                                                                                                                                       00001100
                                                                                                                                       00001110
                                                                                                                                       00001120
                                                                                                                                       00001130
                                                                                                                                       00001140
                                                                                                                                       00001150
        */1H15
2001 FORMAT(3X, 'AL'.3£, 'SV(DBSH)'.1X. 'SH(DBSH)',2X.

"THETAV'.2X, 'THETAH'.//)

2002 FORMAT(1X,F7.2,1P2F9.2,0P2F8.3)

1 READ(05.INPUT,END=999)

WRITE(06,2000) A.H1.H2.CLAM.DELAL.ALMIN,ALMAX,AL
                                                                                                                                       00001160
                                                                                                                                       00001170
                                                                                                                                       00001180
                                                                                                                                       00001190
                                                                                                                                       00001200
          II = 0
THETA = 0.
                                                                                                                                       00001210
                                                                                                                                       00001220
                                                                                                                                       00001230
          MHV2 - 0.
                                                                                                                                       00001240
          BHH2 = 0.
          RELC1 = .(254*.)254
PI = 3.14159265
                                                                                                                                       00001250
                                                                                                                                         JC01270
          A9 = A/(2.*H1)
                                                                                                                                       JC01280
00001290
          X = ATAN(A9)
          DTR = PI/180.
          BID = 180./PI
BELAL = DELAL+DIR
                                                                                                                                       00001300
                                                                                                                                       00001310
                                                                                                                                       00001320
          ALMIN - ALMIN-DIR
                                                                                                                                       00001330
          ALMAX = ALMAX*DTR
          AL = AL*DTR
CK = (2.*PI)/CLAM
                                                                                                                                       00001340
                                                                                                                                       00001350
                                                                                                                                       00001360
          ALO = AL
CN = 2.-2, x/FI
                                                                                                                                       00001370
                                                                                                                                       00001380
          CN2 = 1.+X/PI
          CN3 = 3./2.
                                                                                                                                       00001390
          C1 = PI/2.
                                                                                                                                       00001400
                                                                                                                                       00001410
          c2 = $1/4.
                                                                                                                                       00001420
          C3 = 4. *CK * SQRT(2. *PI)
C4 = 2. *CK *A
                                                                                                                                       00001430
          C5 = 2. *CK*#1
                                                                                                                                       00001440
          C6 = 2. *CK*H2
                                                                                                                                       00001450
                                                                                                                                       00001460
          CAL1 . PI-X
                                                                                                                                       00001470
          CALS . P1/2.
                                                                                                                                       00001480
          C7 = COS(PI/CN1)
                                                                                                                                       00001490
          C8 = SIN(PI/CN1)
                                                                                                                                       00001500
          cg = cos(PI/cN2)
                                                                                                                                       00001510
          C10 = SIN(PI/CN25
```

EJR9 = CMPLX(CSRH9.SNRH9)

```
BJR10 = CHPLX(CSRH10.SNRH10)
CSRHB = COS(RHB)
                                                                                                                                                                                                                                                                                                                                                                                                                                               00002040
                                                                                                                                                                                                                                                                                                                                                                                                                                              00002050
                                                                                                                                                                                                                                                                                                                                                                                                                                               00002060
                         SWRHB . SIN(RHB)
                         BURB - CMPLX(CSRHB.SNRHB)
                                                                                                                                                                                                                                                                                                                                                                                                                                               00002070
   BJRB = CMPLX(CSRMB.SNRHB)
C70 = SQRT(C19*2)
C70 = SQRT(C19*2)
C70 = SQRT(C19*2)
C70 GE. CMSGC) GO TO 60

DY (AL'. LE'. X) GO TO 80

DY (AL'. EQ'. C14 GO TO 41

SMXOX = 1.

C60 = SQRT(A/CK*SIN(AL)))*CK*(2,*M2)*SMXOX

C61 = (C10/CN2)*SQRT(A/CK*SIN(AL)))*C15

C62 = (C12/CN3)*SQRT(A/CK*SIN(AL)))*C15

C63 = (C12/CN3)*SQRT(A/CK*SIN(AL)))*C15

C64 = (C12/CN3)*SQRT(A/CK*SIN(AL)))*C16

BMSBW = C60*EJRB-C61*EJR2-C62*EJR3

C65 = COS((2.**PP-X-AL))/CN1)
C64 = 1.*/(C7-C63)
BS1SW = (C8/C3*EN1))*(C64-C14)

RS1SH = (C8/C3*EN1))*(C64-C14)

RS1SH = (C8/C3*EN1))*(C64+C14)

C65 = COS((-PY-2',*AL)/CN3)
C66 = COS((-PY-2',*AL)/CN3)
C67 = 1.*/(C11-C68)

C68 = SQRT(A/CK*SIN(AL))

BS5SW = (C12/CN3)*C68*(C67-C16)

BS5SW = (C12/CN3)*C68*(C67-C16)

BS5SW = (C12/CN3)*C68*(C67-C16)

BS5SW = (C12/CN3)*C68*(C67-C16)

C0002220

D35SSW = (C12/CN3)*C68*(C67-C16)

C0002220

D35SSW = (C12/CN3)*C68*(C67-C16)

C0002220

D35SSW = (C12/CN3)*C68*(C67-C16)

C0002220

D35SSW = (C12/CN3)*C68*(C67-C16)

D0002220

D0002220

D0002220

D0002220
                         C70 = SQRT(C1g*+2)

IF (AL', LE, X) GO TO 80
                                                                                                                                                                                                                                                                                                                                                                                                                                               00002080
     GO TO 43

42 RS5SV = 0.

#S5SN = 0.

43 CONTINUE

5V = RMSBV+RS1SV*EJR1+RS5SV*EJR5

60 TO 50

00002320

00002330

00002330

00002330
                                                                                                                                                                                                                                                                                                                                                                                                                                               00002290
                         GO TO 43
    00002350
61 RS1SV = 0.

RS1SH = 0.

62 CONTINUE

IF (C17. LE. CANSC) GO TO 70

101 C23 = COS((2.*(PŶ-AL))/CN2)

C24 = 1./(C9-C23)

C25 = SORTIA/(CS-C23)
                     C23 = COS((2.*(PÎ-AL))/CN2)

C24 = 1./(C9-C23T

C25 = SQRT(A/(CK*SIN(AL)))

RS2SV = (C10/CN2]*C25*(C24-C15)

RS2SH = (C10/CN2]*C25*(C24+C15)

C26 = COS((3.*PI-2.*AL)/CN3)

C27 = 1./(C11-C26)

RS3SV = (C12/CH3T*C25*(C27-C16)

RS3SN = (C12/CN3]*C25*(C27+C16)

RS3SN = (C12/CN3]*C25*(C27+C16)

C27 = 1./(C11-C26)

C28 = COS(C3.*PI-2.*AL)/CN3)

C29 = 1./(C11-C26)

C20 =
```

```
C29 = COS((-PI+2'.*AL)/CN3)
C30 = 1./(C11-C29)
RS5SV = (C12/CN3]*C25*(C30-C16)
                                                                                   00002560
                                                                                   00002570
                                                                                00002580
                                                                                   00002590
    RS5SH = (C12/CN35+C25+(C30+C16)
    GO TO 68
                                                                                   00002600
67 RSSSV = 0.
                                                                                   00002610
    RSSSH = 0.
                                                                                   00002620
68 CONTINUE
                                                                                   00002630
    EV = RS15V*EJR1+#S25V*EJR2+RS3SV*EJR3+RS55V*EJR5
                                                                                   00002640
    ZH = RS1SH*EJR1+RS2SH*EJR2+RS3SH*EJR3+RS5SH*EJR5
                                                                                   00002650
    GO TO 50
                                                                                  00002660
70 IF (AL'. LT'. C1) GO TO 101
                                                                                   00002670
    CAXOX = 0.5
IF (AL. EQ. PI) GO TO 71
                                                                                   00002680
                                                                                   00002690
    DRDER = 1.
                                                                              00002700
                                                                              00002710
    CALL BESS(ORDER, C17. B5)
    C32 = B5
                                                                                  00002720
    CBXOX = C32/C17
                                                                                   00002730
71 CONTINUE
                                                                                   00002740
                                                                                   00002750
    c33 = (c12/cN3) *SQRT(A/CK)
    CCAUS2 = CK*A

IF (al. EQ. PI) GO TO 72

CCAUS1 = 1./SIN(al)
                                                                                   00002760
                                                                                   00002770
                                                                                   00002780
CCAUS = CCAUS1

IF (CCAUS2-CCAUS1) 72.72.73

72 CCAUS = CCAUS2
                                                                                   00002790
                                                                                   00002800
                                                                                   00002810
73 CONTINUE
                                                                                   00002820
                                                                                   00002830
    C34 = SQRT(CCAUS)
    C35 = C4*A*SORT(PI)
C51 = (C10/CN2)*SQRT(A/CK)
                                                                                   00002840
                                                                                00002850
    C52 = COS((2.*(PT-AL))/CN2)
                                                                                   00002860
    C53 = 1./(c9-C525
                                                                                   00002870
RS2SV = C51*C34*(C53-C15)
RS2SH = C51*C34*(C53+C15)
                                                                                   00002880
                                                                                   00002890
    ZV = C35*CBXOX*EJR7-C33*C34*C16*EJR10*(EJR8+EJR9)+RS2SV*EJR2
ZH = C35*CBXOX*EJR7+C33*C34*C16*EJR10*(EJR8+EJR9)+RS2SH*EJR2
                                                                                   00002900
                                                                                   00002910
    GO TO 50
                                                                                   00002920
80 C36 = 2. *A *SQRT(PI) *C10/CN2
                                                                                   00002930
 C37 = 1./(c9-cos(2.*FI/cN2))
                                                                                   00002040
                                                                                   00002950
    C38 = 2.*SIN(2'.*PI/CM2)*TAN(AL)
                                                                                   00002960
    ORDER = 0.
    CALL BESS (ORDER, C17, BS)
                                                                                   00002970
                                                                                   00002980
    C39 = B5
                                                                                   00002990
    ORDER = 1.
                                                                                   00003000
CALL BESS(ORDER, C17. 95)
    C40 = 85
                                                                                   00003010
                                                                                   00003020
    ORDER = 2.
    CALL BESS (ORDER, C17. 95)
                                                                                   00003030
                                                                                   00003040
    C41 = 85
    RMSV = (C36*(C37*C39-C38*[C37**2)*C40*EJR4+C15*C41))*EJR6 00003050
RMSH = (C36*(C37*C39-C38*[C37**2)*C40*EJR4+C15*C41))*EJR6 00003060
                                                                                00003070
    C42 = COS((2.*(PI-X-AL))/CN1)
```

## 2960T 01 10-06-75 18.832

	C43 = 1./(C7-C425	00003080
	1815V = (C8/(C3+EN1))*(C43-C14)	00003090
	RS1SH = (C8/(C3+0H1))*(C43+C14)	00003100
	C45 _ (C12/CH3) BORT(A/CKT	00003110
	CCAUS2 = CK*A	00003120
	IP(AL. EQ. 0.) GO TO 81	00003130
	CCAUS1 = 1./SIN(AL)	00003140
1676-0	CCAUS = CCAUST	00003150
	IF (CCAUS2-CCAUS1) 81.81.82	00003160
81	CCAUS = CCAUS2	00003170
	CONTINUE	00003180
	PAG = SORTICE UST	00003190
	646 = SQRT(CCAUST 648 = COS((3.09742.841)/cu3)	00003200
	C40 = 1./(c11=c4a)	00003210
	RS3SY = C45+C46+(C49-C16)	00003220
	\$338 = C45*C46*(C49*C16)	00003230
		00003240
	2V = RNSV+RS1SV*gJR1+RS3SV*gJR3	00003250
	ZH = RNSH+RS 1SH+gJR 1+RS3SH+gJR3	00003260
-	GO TO 50	00003270
20	EVC - CONJG(ZV)	00003280
	ENC - COMIG(SH)	00003200
	SSV - EV-ZVC	
	SSH = ZH-SHC	00003300
	IRALSY = REAL(BSV)	
	REALSH = REAL(65H)	00003320
	RELSV1 = REALSV*RELC1	
	RELSV2 = 10. ALOG1 (RELSV1)	00003340
	PELSH! = REALSH*RELC!	00003330
	RELSH2 =10. ALOG1 (RELSH1)	00003360
	THY 1-ATAM2 (AIMAGIZV) . REAL (ZV))	
	CALL UPDAT(RHV1, RHV2.PI, THETAY)	00003380
	THH 1=ATAN2(AIMAGYZH). REAL(ZH))	00003390
	CALL UPDAT (RHH1, RHH2, PI, THETAN)	00003400
	AL = RID*AL	00003410
	WRITE(6,2002) ALS RELSV2, RELSW2, THETAY, THETAH	00003420
	IF (RELSV2.GT.O.) RELSV2 - AHINTINELSV2.40.)	00003430
7/5	IF (RELSV2, LT. '.) RELSV2 = AMAX1 (RELSV2, -70,)	00003440
1	TP(RELSH2.GT.C.) RELSH2 = AHINA(RELSH2,40.)	00003430
	IF (RELSH2.LT. ).) RELSH2 = AMAX14RELSH2,=70.)	00003460
	fri(II) = RELSV2	00003470
	TY2(II) = RELSH2	00003470
	TY3(II) = THETAY	00003490
	TY4(II) = THETAH	00003500
	XX(II) = AL	00003510
	AL = DTR*AL	00003520
	AINDX=II	00003530
	AL=AIRDX+DELAL +ALO	00003540
	IF (AL-ALMAXT 10;10,200	00003550
00	CALL PLTGDT	00003560
	00 TO 1	-00003570
95	CONTINUE	00003540
THE .	WRITE(6,2001)	00003590
	아이들은 사람들은 사람들은 사람들은 사람들이 살아보고 하는데 아이들이 아니는 아이들이 되었다면 하는데 하는데 아이들이 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데	

## 2960T 01 10-06-75 14.832

THETAY = 0'.
THETAH = 0'.
GO TO 10
999 CONTINUE
STOP
BND

The second secon

**自然。** 例如

Sample Input of the CONE-CYLINDER Program as Output

## INPUTS - CONE CYLINDER

RADIUS OF CYLINDER IN INCHES (A) = 3,1600000

HALF HEIGHT OF CONE IN INCHES (H1) = 5.8915000

HALF HEIGHT OF CYLINDER IN INCHES (H2) = 5,2565000

WAVE LENGTH IN INCHES (CLAM) = 1.9754000

INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 0.1000000

MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 180,0000000

INITIAL ASPECT ANGLE IN DEGREES (AL) = 0.

Sample Output for the CONE-CYLINDER Program

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TO THE CALL STANDED WE THERE THERE DELTERS

AND DESCRIPTION OF TERLEST AREADY OF THORSE TORSES WINTERS

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contoff, a weekl whatke we abereen the traces again

AL	SVIDBS	M) SH(DBS	M) THET	V THETAH	
0.	-2.95E	01-2.262	7 1.0	0.138	
0.	10-2,952		01 1.0	94 0.112	
0.	20-2.95E	01-2.29		94 0.084	
0.	30-2.95E	01-2.308		95 0.028	
0.	50-2.95E	01-2.33		95 -0.001	
0.	50-2.95E	01-2.342		95 -0.03	11-11-12-A
0.	70-2.95E	01-2.362	01 1.0	95 -0.063	
	80-2.96E	01-2.378	1 1.0	96 -0.096	
	90-2,96E 00-2,96E	01-2.39E	01 1.0	96 -0, 129	
	10-2,96E	01-2.42		98 -0,200	J-
1.	20-2.97E	01-2.442		98 -0.237	
1.	30-2.97E	01-2.46	01 1.0	99 -0,276	
	40-2,97E 50-2,98E	01-2.482		00 -0.316	
1	00-2,98E	01-2.498		101 -0,358	
1.	70-2,99E	01-2.53	THE REPORT OF THE PARTY OF THE	102 -0.446	
1.	0-2.99E	01-2,552	71 1.	103 -0.493	
1.	90-3,00E		01 1.	104 -0,542	
	00-3.00E				
	20-3.02E	01-2.60		108 -0.698	
	30-3,02E			109 -0-754	
2.	40-3.03E	01-2.642	01 1.	111 -0,811	
2.	50-3.04E	01-2.65		12 -0,870	
2.	60-3.04E 70-3.05E	01-2.662		114 -0.930	
	80-3.06E	01-2.682		117 -1.053	
	90-3.07E			118 -1, 115	
3.	00-3.08E	01-2.682	1 1,1	120 -1.178	
3.	10-3,09E	01-2.682	01 1.	22 -1.241	
	20-3.10E			124 -1.304	
3.	40-3.12E	01-2.672		28 -1.428	
3.	50-3, 13E	01-2.672	01 1.1	130 -1.488	
3.	50-3,14E	01-2.662		132 -1.548	
	70-3.15E	01-2.65	01 1.1	134 -1.606	F 355.
	80-3.16E 90-3.17E	01-2.632		136 -1.662	
	00-3.18E	01-2.612		41 -1.770	
	10-3,20E	01-2.59	01 1.1	143 -1.822	
	20-3.21E	01-2.582		146 -1.872	
4.	30-3.22E	01-2.578		148 -1.920	
4	50-3.25E	01-2.53	01 1.1		
4.	60-3.26E	01-2.52		56 -2.054	
	70-3.28E	01-2.51		59 -2.096	
	80-3.29E	01-2.49	1 1.		
	90-3.31E 00-3.33E	01-2.482		165 -2.175 168 -2.213	
	10-3.34E	01-2.45	01 1.1	71 -2.249	
5.	20-3.36E	£1-2.44E	1.1	74 -2.285	
	30-3,38E	01-2.422	01 1.1	77 -2,319	
5.	40-3.39E	01-2.418	1 1.1		
5	50-3.41E 60-3.43E	01-2.402	01 1.1	184 -2.385	
				SELECTION ENGLISHED	IV-73

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7.80-3,882 01-2,478 01 1,264 -2,916 7.80-3,882 01-2,408 01 1,264 -2,946 7.80-3,982 01-2,508 01 1,277 -2,991 7.70-3,882 01-2,538 01 1,277 -2,991 7.90-4,012 01-2,552 01 1,216 -3,043 8.70-4,082 01-2,552 01 1,216 -3,043 8.70-4,082 01-2,578 01 1,290 -3,069 8.20-4,113 01-2,578 01 1,294 -3,096 8.20-4,113 01-2,664 01 1,294 -3,096 8.30-4,182 01-2,664 01 1,303 -3,154 8.50-4,232 01-2,668 01 1,303 -3,154 8.50-4,232 01-2,668 01 1,303 -3,154 8.50-4,232 01-2,668 01 1,307 -3,184 8.50-4,232 01-2,682 01 1,311 -3,215 8.80-4,958 01-2,758 01 1,311 -3,215 8.80-4,958 01-2,758 01 1,311 -3,215 8.80-4,958 01-2,788 01 1,318 -3,282 8.90-4,882 01-2,885 01 1,324 -3,318 9.00-4,682 01-2,895 01 1,327 -3,398 9.20-4,582 01-2,978 01 1,327 -3,398 9.20-4,582 01-2,932 01 1,327 -3,398 9.20-4,582 01-2,932 01 1,332 -3,580 9.50-4,772 01-3,080 01 1,333 -3,580 9.50-4,772 01-3,080 01 1,333 -3,580 9.50-4,772 01-3,080 01 1,333 -3,595 9.70-4,682 01-3,052 01 1,330 -3,793 9.90-4,672 01-3,152 01 1,332 -3,721 9.80-4,902 01-3,202 01 1,330 -3,793 9.90-4,672 01-3,152 01 1,332 -3,852 10.00-5,042 01-3,292 01 1,321 -3,958 10.00-5,042 01-3,292 01 1,321 -3,958 10.50-5,512 01-3,455 01 1,268 -4,366 10.70-5,222 01-3,332 01 1,300 -3,793 10.60-5,612 01-3,455 01 1,205 -4,566 10.70-5,722 01-3,332 01 1,300 -3,793 10.60-5,612 01-3,455 01 1,205 -4,566 10.70-5,042 01-3,455 01 1,205 -4,566 10.70-5,042 01-3,382 11 1,061 -4,868 11.20-6,612 01-3,382 11 0,650 -4,566 11.20-6,612 01-3,382 11 0,650 -4,560 11.20-6,612 01-3,382 11 0,650 -4,560 11.20-6,612 01-3,382 11 0,650 -5,580 11.20-6,612 01-3,382 11 0,650 -5,580 11.20-6,612 01-3,382 11 0,650 -5,580	7.30-3.432 01-2.462 01 1.255	42.868
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7,80-3,85E 01=2,50E 01 1,268 62,981 7,70-3,85E 01=2,51E 01 1,277 22,986 7,80-3,80E 01=2,55E 01 1,267 32,003 8,00-4,04E 01=2,55E 01 1,286 33,003 8,10-4,08E 01=2,59E 01 1,286 33,003 8,10-4,01E 01=2,61E 01 1,290 33,008 8,20-4,11E 01=2,61E 01 1,299 33,008 8,30-4,15E 01=2,66E 01 1,303 33,164 8,60-4,27E 01=2,66E 01 1,303 33,164 8,60-4,27E 01=2,72E 01 1,311 -3,245 8,70-4,31E 01=2,78E 01 1,311 -3,245 8,70-4,31E 01=2,78E 01 1,318 -3,282 8,70-4,40E 01=2,82E 01 1,318 -3,282 8,70-4,40E 01=2,82E 01 1,321 -3,318 9,00-4,44E 01=2,82E 01 1,322 -3,318 9,00-4,44E 01=2,82E 01 1,322 -3,389 9,20-4,84E 01=2,89E 01 1,327 -3,398 9,20-4,84E 01=2,89E 01 1,329 -3,442 9,30-4,50E 01=2,89E 01 1,329 -3,442 9,30-4,50E 01=2,89E 01 1,329 -3,442 9,00-4,465 01=3,02E 01 1,333 -3,580 9,50-4,77E 01=3,15E 01 1,333 -3,580 9,50-4,90E 01=3,15E 01 1,333 -3,583 9,90-4,97E 01=3,15E 01 1,326 -3,872 10,00-5,00E 01=3,02E 01 1,326 -3,872 10,00-5,00E 01=3,02E 01 1,326 -3,872 10,00-5,00E 01=3,02E 01 1,288 -44,286 10,00-5,00E 01=3,48E 01 1,285 -5,280 11,00-6,07E 01=3,38E 1 0,085 -5,089	7 80-3 888 04-3 488 04 4-364	
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8	7.00-3,982 01-2.532 01 1.277	
8.30=4,181 01=2,611 01 1,294 =3,096  8.30=4,182 01=2,642 01 1,294 =3,125  8.40=4,922 01=2,662 01 1,303 =3,154  8.50=4,232 01=2,692 01 1,307 =3,184  8.50=4,232 01=2,722 01 1,311 =3,215  8.50=4,232 01=2,782 01 1,314 =3,215  8.50=4,232 01=2,782 01 1,314 =3,215  8.50=4,232 01=2,782 01 1,314 =3,285  8.50=4,232 01=2,782 01 1,314 =3,285  8.50=4,232 01=2,782 01 1,314 =3,285  9.00=4,402 01=2,822 01 1,324 =3,357  9.00=4,402 01=2,822 01 1,321 =3,316  9.00=4,402 01=2,832 01 1,329 =3,442  9.00=4,402 01=2,832 01 1,329 =3,442  9.00=4,502 01=2,572 01 1,331 =3,489  9.00=4,502 01=3,022 01 1,333 =3,595  9.00=4,502 01=3,022 01 1,333 =3,595  9.00=4,502 01=3,112 01 1,333 =3,595  9.00=4,902 01=3,202 01 1,333 =3,595  9.00=4,902 01=3,202 01 1,326 =3,872  10.00=5,002 01=3,202 01 1,321 =3,958  10.70=5,722 01=3,252 01 1,326 =3,872  10.00=5,002 01=3,332 01 1,302 =4,156  10.30=5,002 01=3,402 01 1,288 =4,566  10.30=5,002 01=3,402 01 1,288 =4,566  10.00=5,602 01=3,402 01 1,288 =4,566  10.00=5,602 01=3,402 01 1,288 =4,566  10.00=5,602 01=3,402 01 1,288 =4,566  10.00=5,602 01=3,402 01 1,203 04,666  10.00=5,602 01=3,402 01 0,974 =4,982  11.00=6,772 01=3,322 1 0,653 =5,880  11.00=6,672 01=3,322 1 0,653 =5,880  11.00=6,672 01=3,272 01 -0,228 =3,363  11.00=6,672 01=3,272 01 -0,228 =3,363	7.90-4.012 01-2.558 01 1.281	43,010
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8.20=4,118 01=2,618 01 1,294 = 3,096 8.30=4,152 01=2,642 01 1,299 = 3,125 8.40=4,192 01=2,662 01 1,303 = 3,154 8.50=4,232 01=2,692 01 1,303 = 3,154 8.60=4,272 01=2,722 01 1,311 = 3,218 8.80=4,352 01=2,752 01 1,314 = 3,218 8.80=4,352 01=2,752 01 1,314 = 3,218 8.80=4,352 01=2,752 01 1,314 = 3,282 8.90=4,802 01=2,852 01 1,314 = 3,357 9.00=4,402 01=2,852 01 1,321 = 3,357 9.00=4,402 01=2,852 01 1,327 = 3,398 9.20=4,542 01=2,932 01 1,329 = 3,442 9.30=4,552 01=2,932 01 1,329 = 3,442 9.30=4,552 01=3,062 01 1,333 = 3,580 9.00=4,772 01=3,112 01 1,333 = 3,580 9.00=4,772 01=3,112 01 1,333 = 3,550 9.00=4,772 01=3,152 01 1,333 = 3,550 9.00=4,772 01=3,152 01 1,330 = 3,721 9.80=4,902 01=3,252 01 1,330 = 3,721 9.80=4,902 01=3,252 01 1,330 = 3,739 9.90=4,972 01=3,332 01 1,313 = 4,053 10.20=5,212 01=3,332 01 1,313 = 4,053 10.20=5,212 01=3,332 01 1,288 = 4,266 10.30=5,302 01=3,402 01 1,288 = 4,366 10.30=5,302 01=3,402 01 1,288 = 4,366 10.50=5,542 01=3,452 01 1,288 = 4,366 10.50=5,542 01=3,452 01 1,281 = 4,668 10.90=6,112 01=3,412 01 0,974 = 4,982 11.00=6,072 01=3,332 01 0,552 = 5,888 11.20=6,672 01=3,322 01 0,552 = 5,888 11.20=6,672 01=3,372 01 0,552 = 5,888 11.20=6,672 01=3,372 01 0,552 = 5,888 11.20=6,672 01=3,272 01 0,552 = 5,888 11.20=6,672 01=3,272 01 0,552 = 5,888 11.20=6,672 01=3,272 01 0,552 = 5,888 11.20=6,672 01=3,272 01 0,552 = 5,888	8,10-4,082 01-2,592 01 1,290	<b>43.</b> 009
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8. 40-4, 198 01-2,668 01 1,303 3,354 8. 50-4,278 01-2,728 01 1,311 -3,215 8. 70-4,318 01-2,728 01 1,311 -3,218 8. 80-4,358 01-2,788 01 1,318 -3,288 8. 80-4,408 01-2,828 01 1,321 -3,318 9. 90-4,408 01-2,838 01 1,324 -3,357 9. 90-4,408 01-2,898 01 1,329 -3,482 9. 90-4,488 01-2,898 01 1,329 -3,482 9. 90-4,588 01-2,978 01 1,331 -3,889 9. 40-4,658 01-3,068 01 1,333 -3,580 9. 50-4,718 01-3,068 01 1,333 -3,580 9. 50-4,718 01-3,068 01 1,333 -3,580 9. 50-4,718 01-3,068 01 1,332 -3,721 9. 80-4,902 01-3,258 01 1,332 -3,721 9. 80-4,902 01-3,258 01 1,326 -3,872 10. 00-5,042 01-3,258 01 1,326 -3,872 10. 00-5,042 01-3,258 01 1,326 -3,872 10. 00-5,042 01-3,258 01 1,326 -3,872 10. 00-5,042 01-3,258 01 1,321 -3,958 10. 30-5,302 01-3,432 01 1,302 -4,156 10. 30-5,302 01-3,432 01 1,268 -4,366 10. 40-5,402 01-3,432 01 1,268 -4,366 10. 40-5,402 01-3,432 01 1,268 -4,366 10. 50-5,512 01-3,432 01 1,268 -4,368 10. 90-6,112 01-3,432 01 1,268 -4,368 10. 90-6,112 01-3,432 01 0,908 -5,909 11. 10-6,472 01-3,312 1 0,808 -5,589 11. 20-6,612 01-3,312 1 0,808 -5,589 11. 20-6,612 01-3,312 1 0,808 -5,089 11. 10-6,472 01-3,222 1 -0,563 -5,439	8.30-4.15E 01-2.64E 01 1.299	63, 125
8.50-4, 23E 01-2.69E 01 1.307 -3, 184 8.60-4, 27E 01-2, 72E 01 1.311 -3, 215 8.70-4, 31E 01-2, 75E 01 1.311 -3, 218 8.80-4, 35E 01-2, 78E 01 1.318 -3, 282 8.90-4, 30E 01-2, 85E 01 1.318 -3, 282 8.90-4, 30E 01-2, 85E 01 1.321 -3, 318 9.00-4, 40E 01-2, 85E 01 1.327 -3, 398 9.20-4, 40E 01-2, 89E 01 1.327 -3, 398 9.20-4, 54E 01-2, 99E 01 1.329 -3, 442 9.30-4, 59E 01-2, 97E 91 1.331 -3, 442 9.30-4, 59E 01-2, 97E 91 1.331 -3, 439 9.40-4, 65E 01-3, 02E 01 1.333 -3, 595 9.60-4, 71E 01-3, 02E 01 1.333 -3, 595 9.60-4, 71E 01-3, 03E 01 1.333 -3, 595 9.60-4, 71E 01-3, 15E 01 1.332 -3, 721 9.80-4, 90E 01-3, 15E 01 1.332 -3, 721 9.80-4, 90E 01-3, 25E 01 1.332 -3, 723 9.90-4, 97E 01-3, 25E 01 1.326 -3, 87E 10.00-5, 04E 01-3, 29E 01 1.321 -3, 95E 10.10-5, 21E 01-3, 33E 01 1.326 -3, 87E 10.20-5, 21E 01-3, 33E 01 1.285 -3, 87E 10.50-5, 51E 01-3, 45E 01 1.285 -4, 56E 10.40-5, 93E 01-3, 45E 01 1.285 -4, 56E 10.40-5, 93E 01-3, 45E 01 1.285 -4, 62E 10.70-5, 78E 01-3, 45E 01 1.285 -4, 62E 10.70-5, 93E 01-3, 45E 01 1.326 -4, 88E 11.20-6, 61E 01-3, 34E 01 0.974 -4, 96E 11.00-6, 30E 01-3, 33E 01 0.974 -4, 96E 11.00-6, 47E 01-3, 34E 01 0.974 -4, 96E 11.00-6, 47E 01-3, 24E 01 0.974 -4, 96E	8.40-4.192 01-2.562 01 1.103	43'. 154 36' A C A C A C A C A C A C A C A C A C A
8.50=4.27E 01=2.72± 01 1.311 +3.215 8.70=4.31E 01=2.78± 01 1.314 +3.215 8.80=4.35E 01=2.78± 01 1.318 +3.282 8.90=4.00E 01=2.82± 01 1.321 +3.318 9.00=4.40E 01=2.85± 01 1.321 +3.318 9.00=4.40E 01=2.85± 01 1.321 +3.318 9.00=4.50E 01=2.80± 01 1.329 +3.402 9.30=4.59E 01=2.93± 01 1.329 +3.402 9.30=4.59E 01=2.93± 01 1.333 +3.550 9.40=4.65E 01=3.06E 01 1.333 +3.555 9.40=4.65E 01=3.06E 01 1.333 +3.555 9.70=4.83E 01=3.15± 01 1.333 +3.555 9.70=4.83E 01=3.15± 01 1.333 +3.555 9.70=4.83E 01=3.20± 01 1.333 +3.555 9.70=4.83E 01=3.20± 01 1.333 +3.555 9.70=4.83E 01=3.30± 01 1.332 +3.721 9.80=4.90E 01=3.20± 01 1.332 +3.721 10.00=5.04E 01=3.32± 01 1.326 +3.872 10.00=5.04E 01=3.32± 01 1.326 +3.872 10.00=5.04E 01=3.33± 01 1.326 +3.872 10.00=5.04E 01=3.33± 01 1.326 +3.855 10.30=5.30E 01=3.40± 01 1.328 +4.266 10.40=5.40E 01=3.40± 01 1.288 +4.266 10.40=5.40E 01=3.45± 01 1.241 +4.503 10.60=5.93E 01=3.45± 01 1.241 +4.503 10.60=5.93E 01=3.45± 01 1.081 +4.868 10.90=6.11E 01=3.45± 01 0.974 +4.962 11.00=6.47E 01=3.38± 01 0.908 +5.089 11.10=6.47E 01=3.38± 01 0.908 +5.089 11.10=6.47E 01=3.28± 1 0.908 +5.280 11.20=6.61E 01=3.27± 01 -0.228 +3.363 11.40=6.47E 01=3.22± 1 -0.228 +3.363	8.50-4.232 01-2.692 01 1.107	- 53, 184
8.70=4,31% 01=2.75% 01 1,31% -3,28% 8.80=4,40% 01=2.82% 01 1,31% -3,28% 9.00=4,40% 01=2.82% 01 1,321 -3,37% 9.00=4,40% 01=2.85% 01 1,324 -3,357 9.10=4,50% 01=2.89% 01 1,324 -3,357 9.10=4,50% 01=2.89% 01 1,329 -3,482 9.20=4.54% 01=2.93% 01 1,329 -3,482 9.30=4,50% 01=2.97% 01 1,331 -3,489 9.40=4,65% 01=3.02% 01 1,333 -3,580 9.50=4,71% 01=3.06% 01 1,333 -3,580 9.50=4,71% 01=3.11% 01 1,333 -3,580 9.50=4,71% 01=3.11% 01 1,333 -3,580 9.50=4,71% 01=3.15% 01 1,332 -3,721 9.80=4,90% 01=3.20% 01 1,330 -3,721 9.80=4,90% 01=3.20% 01 1,330 -3,933 9.90=4,90% 01=3,20% 01 1,326 -3,87% 10.00=5,04% 01=3,29% 01 1,321 -3,55% 10.10=5,22% 01=3,33% 01 1,326 -3,87% 10.20=5,22% 01=3,33% 01 1,326 -3,87% 10.30=5,30% 01=3,40% 01 1,28% -44,56% 10.40=5,40% 01=3,45% 01 1,26% -44,56% 10.50=5,51% 01=3,45% 01 1,26% -44,56% 10.50=5,53% 01=3,45% 01 1,20% -44,66% 10.70=5,93% 01=3,45% 01 1,20% -44,66% 10.90=6,11% 01=3,45% 01 0,97% -44,66% 10.90=6,11% 01=3,45% 01 0,97% -44,66% 11.00=6,40% 01=3,34% 01 0,55% -5,280 11.30=6,61% 01=3,24% 01 0,55% -5,280 11.30=6,61% 01=3,23% 01 0,08% -5,280 11.30=6,61% 01=3,23% 01 0,55% -5,280 11.30=6,61% 01=3,23% 01 0,55% -5,280 11.30=6,64% 01=3,23% 01 0,55% -5,280	8 80-4 272 04-2 724 04 4 944	21.245 25000 000 000 000 000 000 000 000
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8.90=4.40E 01=2.82E 01 1.321 =3.378 9.00=4.40E 01=2.83E 01 1.324 =3.357 9.10=4.49E 01=2.83E 01 1.327 =3.398 9.20=4.50E 01=2.93E 01 1.329 =3.40E 9.30=4.50E 01=2.93E 01 1.331 =3.40E 9.40=4.65E 01=3.02E 01 1.333 =3.50E 9.40=4.65E 01=3.02E 01 1.333 =3.50E 9.50=4.71E 01=3.02E 01 1.333 =3.50E 9.50=4.71E 01=3.11E 01 1.332 =3.50E 9.70=4.83E 01=3.15E 01 1.332 =3.721 9.80=4.90E 01=3.25E 01 1.332 =3.773 9.90=4.90E 01=3.25E 01 1.326 =3.572 10.00=5.04E 01=3.29E 01 1.321 =3.958 10.10=5.21E 01=3.33E 01 1.321 =3.958 10.20=5.21E 01=3.33E 01 1.288 =4.266 10.30=5.30E 01=3.43E 01 1.288 =4.382 10.50=5.51E 01=3.43E 01 1.288 =4.382 10.50=5.51E 01=3.43E 01 1.288 =4.382 10.50=5.51E 01=3.43E 01 1.205 =4.626 10.70=5.59E 01=3.43E 01 1.205 =4.626 10.70=5.93E 01=3.43E 01 0.974 =4.968 10.90=6.93E 01=3.43E 01 0.974 =4.968 11.00=6.30E 01=3.33E 01 0.908 =5.089 11.10=6.49E 01=3.33E 01 0.988 =5.089 11.10=6.49E 01=3.31E 01 0.955 =5.188 11.20=6.61E 01=3.31E 01 0.955 =5.280 11.30=6.60E 01=3.27E 01 -0.228 =5.363 11.40=6.47E 01=3.22E 01 -0.228 =5.363		
9,00-4,448 01-2,858 01 1,324 -3,357 9,70-4,492 01-2,898 01 1,327 -3,358 9,20-4,542 01-2,898 01 1,329 -3,442 9,30-4,592 01-2,972 01 1,331 -3,489 9,40-4,652 01-3,022 01 1,333 -3,540 9,50-4,712 01-3,062 01 1,333 -3,555 9,70-4,832 01-3,112 01 1,333 -3,555 9,70-4,832 01-3,152 01 1,332 -3,721 9,80-4,902 01-3,202 01 1,330 -3,773 9,90-4,972 01-3,252 01 1,326 -3,872 10,00-5,042 01-3,292 01 1,321 +3,958 10,10-5,122 01-3,332 -1 1,313 -4,053 10,20-5,212 01-3,332 -1 1,313 -4,053 10,20-5,212 01-3,332 -1 1,302 -4,156 10,30-5,302 01-3,402 01 1,288 -4,266 10,40-5,402 01-3,402 01 1,288 -4,266 10,50-5,512 01-3,452 01 1,268 -4,362 10,50-5,512 01-3,452 01 1,205 -4,626 10,70-5,932 01-3,452 01 1,205 -4,626 10,70-5,932 01-3,452 01 1,081 -4,868 10,90-6,112 01-3,452 01 0,974 -4,982 11,90-6,302 01-3,382 01 0,552 -5,188 11,20-6,612 01-3,382 01 0,855 -5,280 11,30-6,612 01-3,312 0 0,855 -5,280 11,30-6,612 01-3,312 0 0,855 -5,280		
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9.20-4.54	9,0004,468 01-2,858 01 1,324	
9.30=4.592 01=2.572 01 1.331 -3.489 9.40=4.652 01=3.022 01 1.333 -3.540  9.50=4.712 01=3.062 01 1.333 -3.555 9.60=4.772 01=3.062 01 1.333 -3.655 9.70=4.832 01=3.152 01 1.332 -3.721 9.80=4.902 01=3.202 01 1.330 -3.793 9.90=4.972 01=3.252 01 1.326 -3.872 10.00=5.042 01=3.292 01 1.321 -3.958 10.10=5.042 01=3.332 01 1.313 -4.053 10.20=5.212 01=3.332 01 1.313 -4.053 10.30=5.302 01=3.432 01 1.268 -44.362 10.50=5.642 01=3.432 01 1.268 -44.382 10.50=5.642 01=3.452 01 1.268 -44.382 10.50=5.642 01=3.452 01 1.205 -44.626 10.70=5.782 01=3.452 01 1.205 -44.626 10.70=5.782 01=3.452 01 1.081 -44.668 10.90=6.112 01=3.432 1 1.081 -44.668 10.90=6.112 01=3.432 1 1.081 -44.668 11.20=6.612 01=3.322 1 0.808 -5.089 11.10=6.602 01=3.322 1 0.808 -5.089 11.10=6.602 01=3.372 01 -0.228 -5.363 11.40=6.602 01=3.272 01 -0.228 -5.363		
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9.50=4.71  01=3.06  01  1.333  43.595 9.60=4.77  01=3.11  01  1.333  43.655 9.70=4.83  01=3.15  01  1.332  43.721 9.80=4.97  01=3.20  01  1.330  43.793 9.90=4.97  01=3.25  01  1.320  43.872 10.00=5.04  01=3.29  01  1.321  43.958 10.10=5.04  01=3.33  01  1.313  44.053 10.20=5.21  01=3.33  01  1.313  44.053 10.20=5.21  01=3.40  01  1.288  44.266 10.40=5.40  01=3.40  01  1.288  44.266 10.40=5.64  01=3.45  01  1.288  44.382 10.50=5.51  01=3.45  01  1.288  44.503 10.60=5.64  01=3.45  01  1.205  44.626 10.70=5.78  01=3.45  01  1.205  44.626 10.70=5.78  01=3.45  01  1.081  44.868 10.90=6.11  01=3.41  01  0.974  44.982 11.00=6.30  01=3.38  1  0.808  95.089 11.10=6.61  01=3.34  01  0.552  95.188 11.20=6.61  01=3.27  01  -0.228  95.363 11.40=6.47  01=3.23  1  -0.563  95.439		
9.60-4.772 01-3.112 01 1.333 43.655 9.70-4.832 01-3.152 01 1.332 43.721 9.80-4.902 01-3.202 01 1.330 -3.793 9.90-4.972 01-3.252 01 1.326 43.872 10.00-5.002 01-3.292 01 1.321 43.958 10.10-5.122 01-3.332 01 1.313 40.053 10.20-5.212 01-3.372 01 1.288 40.053 10.20-5.212 01-3.372 01 1.288 40.266 10.40-5.402 01-3.432 01 1.268 40.382 10.50-5.512 01-3.452 01 1.268 40.503 10.60-5.642 01-3.452 01 1.205 40.626 10.70-3.782 01-3.452 01 1.205 40.626 10.70-3.782 01-3.452 01 1.081 40.668 10.90-6.112 01-3.412 01 0.974 40.968 10.90-6.112 01-3.412 01 0.974 40.968 11.00-6.302 01-3.382 1 0.808 5.089 11.10-6.402 01-3.312 1 0.808 5.089 11.10-6.602 01-3.312 1 0.808 5.280 11.30-6.602 01-3.312 1 0.808 5.280 11.30-6.602 01-3.272 01 -0.268 -5.363 11.40-6.472 01-3.232 1 -0.563 75.439	9.40-4.652 01-3.022 01 1.333	<b>43.540</b>
9.60-4.772 01-3.112 01 1.333 43.655 9.70-4.832 01-3.152 01 1.332 43.721 9.80-4.902 01-3.202 01 1.330 -3.793 9.90-4.972 01-3.252 01 1.326 43.872 10.00-5.002 01-3.292 01 1.321 43.958 10.10-5.122 01-3.332 01 1.313 40.053 10.20-5.212 01-3.372 01 1.288 40.053 10.20-5.212 01-3.372 01 1.288 40.266 10.40-5.402 01-3.432 01 1.268 40.382 10.50-5.512 01-3.452 01 1.268 40.503 10.60-5.642 01-3.452 01 1.205 40.626 10.70-3.782 01-3.452 01 1.205 40.626 10.70-3.782 01-3.452 01 1.081 40.668 10.90-6.112 01-3.412 01 0.974 40.968 10.90-6.112 01-3.412 01 0.974 40.968 11.00-6.302 01-3.382 1 0.808 5.089 11.10-6.402 01-3.312 1 0.808 5.089 11.10-6.602 01-3.312 1 0.808 5.280 11.30-6.602 01-3.312 1 0.805 5.280 11.30-6.602 01-3.272 01 -0.263 -5.363	9,50-4,712 01-3,062 01 1,333	43,595
9.70-4.83E 01-3.15E 01 1.332 +3.721 9.80-4.90E 01-3.20E 01 1.330 -3.793 9.90-4.97E 01-3.25E 01 1.326 +3.872 10.00-5.04E 01-3.33E 01 1.321 +3.958 10.70-5.12E 01-3.33E 01 1.313 +4.053 10.20-5.21E 01-3.37E 01 1.302 +4.156 10.30-5.30E 01-3.40E 01 1.288 +4.266 10.40-5.40E 01-3.43E 01 1.268 +4.382 10.50-5.51E 01-3.45E 01 1.268 +4.382 10.50-5.51E 01-3.45E 01 1.205 +4.626 10.70-5.78E 01-3.45E 01 1.154 +4.749 10.80-5.93E 01-3.43E 01 1.081 +4.668 10.90-6.11E 01-3.41E 01 0.974 +4.962 11.00-6.30E 01-3.34E 01 0.552 +5.188 11.10-6.49E 01-3.34E 01 0.552 +5.188 11.20-6.61E 01-3.31E 01 0.185 +5.280 11.30-6.60E 01-3.27E 01 -0.228 +5.363 11.40-6.47E 01-3.23E 1 -0.563 +5.439		43.655
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9.90-4,97E 01-3,25E 01 1,326 +3,872 10.00-5.04E 01-3.29E 01 1,321 +3,958 10.10-5.12E 01-3.33E 01 1,313 +4,053 10.20-5,21E 01-3.40E 01 1,288 +4,266 10.30-5.30E 01-3.40E 01 1,268 +4,382 10.50-5.51E 01-3.45E 01 7.241 +4,503 10.60-5.64E 01-3.45E 01 7.241 +4,503 10.80-5.93E 01-3.43E 01 1,081 +4,626 10.90-6.11E 01-3.43E 01 0.974 +4,962 11.00-6.30E 01-3.43E 01 0.974 +4,962 11.00-6.30E 01-3.38E 01 0.974 +4,962 11.00-6.30E 01-3.38E 01 0.552 +5,188 11.20-6.61E 01-3.38E 01 0.552 +5,188 11.20-6.61E 01-3.31E 01 0.552 +5,188 11.20-6.61E 01-3.31E 01 0.552 +5,363 11.40-6.47E 01-3.23E 01 -0.563 +5,439	9.80-4.902 01-3.202 01 1.330	-3.793
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10.10~5.12E 01~3.33E 01 1.313 ~4.053 10.20~5.21E 01~3.37E 01 1.302 ~4.156 10.30~5.30E 01~3.40E 01 1.288 ~4.266 10.40~5.40E 01~3.45E 01 1.268 ~4.382 10.50~5.51E 01~3.45E 01 1.205 ~4.626 10.70~5.78E 01~3.45E 01 1.154 ~4.749 10.80~5.93E 01~3.43E 01 1.081 ~4.868 10.90~6.11E 01~3.41E 01 0.974 ~4.982 11.00~6.30E 01~3.38E 1 0.808 ~5.089 11.10~6.49E 01~3.31E 1 0.808 ~5.089 11.20~6.61E 01~3.31E 1 0.185 ~5.280 11.30~6.60E 01~3.27E 01 ~0.228 ~5.363 11.40~6.47E 01~3.23E 1 ~0.563 ~5.439		Licora - EPPLK - GE MERCEMPETENTOEMET A
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10.90-6.11E 01-3.41E 01 0.974 -4.982 11.00-6.30E 01-3.38E 1 0.808 -5.089 11.10-6.49E 01-3.34E 01 0.552 -5.188 11.20-6.61E 01-3.31E 1 0.185 -5.280 11.30-6.60E 01-3.27E 01 -0.228 -5.363 11.40-6.47E 01-3.23E 1 -0.563 -5.439		
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11.00-6.30E 01-3.38E 1 0.808 -5.089 11.10-6.49E 01-3.34E 01 0.552 -5.188 11.20-6.61E 01-3.31E 1 0.185 -5.280 11.30-6.60E 01-3.27E 01 -0.228 -5.363 11.40-6.47E 01-3.23E 1 -0.563 -5.439		
11.10-6.49E 01-3.34E 01 0.552 -5.18B 11.20-6.61E 01-3.31E .1 0.185 -5.280 11.30-6.60E 01-3.27E 01 -0.228 -5.363 11.40-6.47E 01-3.23E .1 -0.563 -5.439		<b>-5.089</b>
11.20-6.61E 01-3.31E .1 0.185 -5.280 11.30-6.60E 01-3.27E 01 -0.228 -5.363 11.40-6.47E 01-3.23E .1 -0.563 -5.439		
11.30-6.60E 01-3.27E 01 -0.228 -5.363 11.40-6.47E 01-3.23E 1 -0.563 -5.439		[18] [18] [18] [18] [18] [18] [18] [18]
11.40-6.472 01-3.232 1 -0.563 -5.439	11 30-6-608 01-1 378 01 -0 358	
		HINDER AND SANDERS OF THE PARTY
11,00-0,30E 01-3,16E 01 -0,766 43,309[V_74		
	11,00-0,502 01-3,182 01 -0,788	43.30914.74

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11.60-6.13E 01-3.14E 01
                                     -5.572
                            -0.933
                            -1.028
                                     -5.630
11.80-5.85E 01-3.07E 01
                                     -5.684
-5.734
                            -1.094
                            -1.140
12.00-5.64E 01-3.00E 01
                                     -5.780
                            -1.174
12.10-5.55E 01-2.97E 01
                            -1.198
                                     -5.823
12.20-5.472 01-2.942 1
                                     -5.864
                            -1.217
12.30-5.40E 01-2.91E 01
                            -1.231
                                     -5.903
                            -1.242
12.40-5.342 01-2.882 01
12.50-5.28E 01-2.86E 01
                            -1.250
                                     +5.974
12.60-5.23E 01-2.83E 1
                            -1.256
                                     -6.007
12.70-5.18E 01-2.81E 01
                            -1.261
                                     -6.039
12.80-5.13E 01-2.80E .1
                            -1.264
                                     -6.071
12.90-5.09E 01-2.78E 01
                            -1.266
                                     -6.101
                                     -6, 131
13.00-5.05E 01-2.76E 1
                            -1.267
13.10-5.02E 01-2.75E 01
                                     -6.160
                            -1.268
13.20-4.98E 01-2.74E 1
                            -1.26R
                                     -6.188
13.30-4,95E 01-2,73E 01
                                     -6,216
                            -1.268
13.40-4.92E 01-2.72E 11
                                     76.244
                            -1.268
                                     -6,272
                            -1.267
13.50-4,90E 01-2.71E 01
                                     -6.300
13.50-4.87E 01-2.71E +1
                            -1.266
13.70-4.85E 01-2.70E 01
13.80-4.82E 01-2.70E 1
                            -1.265
-1.264
                                     -6.328
                                     -6.356
13.90-4.80E 01-2.70E 01
                            -1,263
                                     -6,385
                                     -6.413
14.00-4.78E 01-2.70E 1
                            -1.262
                                    -6,443
14.10-4,77E 01-2.70E 01
                            -1,261
                                     -6.473
14.20-4.75E 01-2.70E 1
                            -1.260
                                     -6.503
14.30-4.73E 01-2.71E 01
                            -1.259
14.40-4.72E 01-2.71E .1
                                     -6.534
                            -1.258
14.50-4.70E 01-2.72E 01
                            -1.258
                                     -5.566
                            -1.257
                                     76.599
14.60-4.69E 01-2.73E .1
                                     -6.634
14.70-4.68E 01-2.74E 01
                            -1.256
                                     -6.669
-6.706
14.80-4.67E 01-2.75E
                            -1.256
14.90-4.66E 01-2.76# 01
                            -1.256
                                     -6.744
15.00-4.65E 01-2.78E
                            -1.256
15.10-5.49E 01-2.82E 01
                            -2.193
                                     -7.054
                                    -7.054

-7.102

-7.150

-7.197

-7.244

-7.291

-7.338

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-7.569
15.20-5.45E 01-2.82E -1
                            -2.191
15.30-5.41E 01-2.81E 01
                            -2.189
15.40-5.37E 01-2.89E 01
                            -2.187
15.50-5.34E 01-2.80E 01
                            -2.185
                            -2.183
15.60-5.30E 01-2.79E 1
15.70-5.27E 01-2.79E 01
                            -2.181
15.80-5.24E 01-2.78E
                            -2.180
                       .1
15.90-5.21E 01-2.77E
16.00-5.18E 01-2.77E
                            -2.178
-2.177
16.10-5.16E 01-2.76E 01
                            -2.177
                                    -7.569
                            -2.176
16.20-5.13E 01-2.76E
                            -2.176
                                     -7.615
16.30-5.11E 01-2.75# 01
                            -2.176
                                     -7.560
16.40-5.09E 01-2.75E 1
                            -2.177
16.50-5.07E 01-2.74E 01
                                     -7.705
16.60-5.05E 01-2.74E
                            -2.177
                                     -7.750
16.70-5.03E 01-2.73# 01
                            -2.178
                                     -7.795
16.80-5.02E 31-2.73E
                            -2.180
                                     -7.840
16.90-5.00E 01-2.72E 01
                            -2.182
                                     -7.884
                                     ÷7,929
17.00-4.99E 01-2.72E -1
                            -2.184
                                     77,973
                            -2.187
-2.190
17.10-4.97E 01-2.71E 01
                                     -8.017
17.30-4.95E 01-2.70E 01
                            -2.193
                                     -8.061
                                     48. 105 IV-75
                            -2.198
17.40-4.94E 01-2.70E 01
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17.50-4.94E	01-2.708	10	-2.202	-8.149	
47 60 4: 639					
17,0000,935	01-2,698	11	-2,208	68, 192	
17. 70-4. 93E	01-2.698	01	-2.213 -2.220	-8.236 -8.279	
17.80-4.92E	01-2.692	. 1	-2.220	-8.279	
17.90-4.928	01-2.68	01	-2.227	48.323	
18.00-4.922	01-2.68	ut	-2.235	-8.366	
18.10-4.928	01-2.68	01	-2.244	-8.409	
18,20-4,922	01-2.682	01	-2.254	-8.452	
18.30-4,932	01-2.672	01	-2.265	-8,452 -8,496 -8,539	
10.30-4.932	01-2.07E		-2.203	46.430	
18.40-4.932	01-2.67	01	-2,277	78,539	
18.50-4,948	01-2.678	01	-2.290	-8.582	
18.60-4.942	01-2.678	01	-2.304	48.625	
					- 14 (1.4)
18.70-4.952	01-2.67	01	-2.320	-8.667	
18.80-4.96E	01-2.578	01	-2.337	98,710	
18.00-4.97E	01-2.678	01	-2.356	-8,753	
19.00-4.992	01-2.678	01	-2.376	-8 796	
				-8.796 -8.839	5 6 2
19.40-5.00E	01-2.662	01	-2.399	48.839	
19.20-5.02E	01-2.662	01	-2,423	78,882	
19.30-5.03E	01-2.668	01	-2.450	-8.925	
				-0 068	
19.40-5.05E	01-2.672	01	-2,479	-8.968	
19.50-5.07E	01-2.67	01	-2.510	-9.011	
19.60-5.08E	01-2.672	61	-2.545	79.054	
19.70-5.102	01-2.67	01	-2.582	9.097	
49 80-5 409				-0 440	
19.80-5, 122	01-2.672	01	-2.623	+9.140	
19.90-5.142	01-2.672	01	-2.666	-9, 183	
20.00-5.46E	01-2.672	01	-2.713	79.226	
20.10-5.172	01-2.678	01	-2.764	-9.269	-
20.10-5.172			-2.707	-0' 343	
20.20-5.19E	01-2.688	91	-2.817	-9,312	
20.30-5.202	01-2.682	01	-2.874	49.356	
20.40-5.212	01-2.682	91	-2.933	-9.399	
20.50-5.222				-0 442	
20.3003.222	01-2.68	01	-2.995	-9.442	
20.80-5,22E	01-2.692	01	-3.058	-9,486	
20.70-5.222	01-2.698	01	-3.123	-9.529	
20.80-5.222	01-2,692	04	-3.187	-0.573	
20.90-5.22E			-3.252	-9.529 -9.573 -9.616	
	01-2.70	01		44.010	
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22 40 0 00	04-3 545		3.000	- 10. 10 1	
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23.70-4.842	01-2.848	01	-4.001	-10.556	
23.40-4.842	01-2.852	01	-4.011	-10.603	ne may to be signed.
22.20-4,83E		51			
	01-2.872	- Seekings - Col	-4.019	-10.650	TARKS.
23.30-4.83E	01-2.882	01	-4.026	-10.698	IV-7

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-4.031 -10.746

-4.036 -10.794

-4.039 -10.843

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                           -1.748 -26.824
48.50=3.51E 01-2.68E 01
                           -1.753 -26,859
48.70-3,50E 01-2.68E 01
48. 80-3.50E 01-2.67E 01
                           -1.758 -26.893
48.90-3,50E 01-2.67# 01
                           -1.764 -26.927
49.00-3.50E 01-2.67E 01
                           -1.770 -26,961
49.10-3.50E 01-2.67E 01
                           -1.776 -26,995
-1.784 -27.029
                           -1,792 -27,063
-1,802 -27,098
49.30-3,52E 01-2,68E 01
49.40-3.53E 01-2.69E 01
49.50-3,542 01-2,702 01
                           -1,813 -27,134
49.50-3.56E 01-2.71E 01
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                           -1.838 -27.206
-1.853 -27.243
49.70-3,58E 01-2.73E 01
49. 80-3.60E 01-2.74E 01
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49.90-3,62E 01-2,76E 01
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50.00-3.65E 01-2.78E 01
50.10-3,68E 01-2.80E
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50.30-3.73E 01-2.84E 01
                           -1.928 -27.400
                           -1.950 -27.442
                           -1.974 -27.485
50.40-3.77E 01-2.87E 01
                           -1.998 -27.529
-2.022 -27.574
50.50-3,80E 01-2.89E 01
50.80-3.83E 01-2.92E 01
50.70-3.872 01-2.962 4
                           -2.047 -27.621
                           -2.071 -27.670
50.80-3.90E 01-2.99E 01
                            -2.094 -27.720
50.90-3.94E 01-3.03E .1
51.00-3.98E 01-3.07E 01
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51.10-4.02E 01-3.11E .1
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                           -2.148 -27.886
51.20-4.06E 01-3.15E 01
                           -2.158 -27.947
-2.162 -28.012
51.30-4.10E 01-3.20E 01
51.40-4.15E 01-3.26E 01
51.50-4.21E 01-3.31E .1
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51,60-4,26E 01-3.37E 01
                           -2.146 -28.160
51.70-4.33E 01-3.44E 1
                            -2.122 -28.245
51. #0-4.40E 01-3.51E 01
                            -2.083 -28.341
                            -2.026 -28.450
51.90-4.47E 01-3.58E .1
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52.00-4.55E 01-3.65E 01
                           -1.833 -28.722
52. 10-4.64E 01-3.73E 1
                           -1.684 -28.891
-1.495 -29.083
-1.274 -29.294
52.20-4.712 01-3.792 01
52,30-4,77E 01-3.84E 01
52.40-4.79E 01-3.87E 01
                            -1.044 -29,512
52,50-4,76E 01-3,86E
                            -0.831 -29.724
52.50-4.68E 01-3.83E 01
                            -0,652 -29,918
52,70-4,582 01-3,772 1
                            -0.509 -30.087 IV -81
52.80-4.46E 01-3.69E 01
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52.90-4.34g 01-3.60g 01
53.00-4.23g 01-3.51g 01
53.10-4.12g 01-3.43g 01
                             -0'.398 -30'.232
-0'.311 -30'.355
-0.243 -30.459
53.20-4.02E 01-3.35E 01
53.30-3.93E 01-3.27E 01
                             -0.188 -30.548
                             -0.144 -30.626
53.40-3.85E 01-3.20# 01
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53. 50-3.772 01-3.132 07
                             -0.078 -30.754
53.60-3.71E 01-3.07E 01
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53.70-3.64E 01-3.01E 01
                             -0.032 -30.857
53.80-3.59E 01-2.96E 01
                             -0.014 -30.902
53.90-3.542 01-2.912 01
                              0.000 -30.944
54.00-3.49E 01-2.86E 01
54.10-3.45E 01-2.82E 1
                              0.022 -31.020
54.20-3.41E 01-2.79E 01
                              0.030 -31.056
54.30-3.38E 01-2.75E 01
                              0.035 -31.090
                              0.038 -31.123
54.40-3.35E 01-2.72E 01
54.50-3.33E 01-2.70E 1
                              0.040 -31.155
                              0.039 -31.187
0.037 -31.218
54.60-3.31E 01-2.67E 01
54.70-3.292 01-2.652 01
54.80-3.27E 01-2.63E 01
                              0.033 -31.248
                                               0.027 -31.279
54. PO-3.262 01-2.612 01
                              0.019 -31.309
0.009 -31.339
55.00-3.25E 01-2.60E 01
55.10-3.24E 01-2.59E 1
                             -0.002 -31.370
55.20-3,23E 01-2.58E 01
55.30-3.22E 01-2.57E 01
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                             -0.030 -31.430
55.40-3,22E 01-2.56E 01
55.50-3.22E 01-2.56E 01
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55.60-3.21E 01-2.55E 01
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55.70-3.21E 01-2.55E 01
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                             -0.099 -31.553
-0.118 -31.583
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56.10-3.21E 01-2.56E 01
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56.30-3.21E 01-2.57E -1
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56.40-3.21E 01-2.58E 01
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56.50-3.22E 01-2.59E 1
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                             -0.232 -31.793
56.60-3.22E 01-2.60E 01
                             -0.242 -31.822
56.70-3.222 01-2.622 71
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56.80-3.23E 01-2.63E 01
56.90-3.24E 01-2.65E .1
                             -0.255 -31.878
57.00-3.25E 01-2.68E 01
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57. 10-3, 26E 01-2.70E 01
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-0.243 -31.986
57.20-3.28E 01-2.73E 1
57.30-3.30E 01-2.77E 01
57.40-3.32E 01-2.80E 1
                             -0.231 -32.013
                             -0.215 -32.039
-0.194 -32.066
57.50-3.35E 01-2.84E 01
   .60-3.37E 01-2.89E .1
57.70-3.412 01-2.942 01
                             -0.168 -32.094
57.80-3.45E 01-3.01E 01
                             -0, 136 -32, 123
                             -0.098 -32, 153
57.90-3.492 01-3.072 01
58.00-3.54E 01-3.15E
                             -0.051 -32.185
                              0.005 -32,222
58. 10-3.592 01-3.242 01
   20-3.642 01-3.352 .1
                              0.072 -32.263
58.30-3.70E 01-3.47E 01
                              0.152 -32.313
                              0.359 -32.461
   40-3.76E 01-3.62E
58.50-3.812 01-3.792 61
58,50-3,86E 01-4.01E .1
                              0.489 -32.590
58.70-3.90E 01-4.28E 01
                              0.634 -32.808
                                             IV -82
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58.80-3.91E 01-4.58g	01	0.790	-33.226	the state of the s
58 90 3 912 01-4 67	04		_33' 90!	
59.00-3.882 01-4.432	01			
32. 4043. 662 0144. 632	01		m34,47(	
59.40-3,84E 01-4.43E	01	1.248	-34.77	The Car Teach Street State 25
59.20-3.792 01-3.882	11	1.375	-34,93	
59.30-3.722 01-3.682	01		-35.04	
59.40-3,66E 01-3.52E	01	1 275	-35.115	
59.50-3.59E 01-3.38E	2 2 2 3	1.373	733, 114	
57,4043,378,0143,308	01		-35.17	
59.00-3,532 01-3.262			-35,218	
59.70-3.47E 01-3.16E	01	1.763	-35,258	
59. 10-3,412 01-3.072	01	1.804	935, 293	
59.90-3,36E 01-2.99E	01	1.836	-35,326	
60.00-3,31E 01-2.91E	01	1.861	-35,356	
60.10-3.26E 01-2.65E	01	4 000	-35,386	
			*35,300	
60.20-3.22E 01-2.79E		1.894		
60.30-3,178 01-2,748	01	1.904	-35,441	CAN WALL PRINT TO BUT WHITE AND THE
60.40-3.142 01-2.692	01	1.909	-35.468	
60,50-3,100 01-2,652	01	1,911	-35,495	
60.50-3.06E 01-2.61E	21	1.911	-35.521	the state of the property for the same and provide the same for the same of th
60.70-3.032 01-2.572	01	1 008	-35,547	
60.00-3.002 01-2.542	01	1.903	-38 577	
60 60-3' 600 01-2,542				
60,90-2,97E 01-2,51E	01	1,897	-35,598	MAN PER CANADASE . SENS. NE.
61.00-2.94E 01-2.48E		1,890		
61, 10-2, 91E 01-2, 45E	01	1,883	-35,647	
61.20-2.89E 01-2.43E	01	1.875	-35.671	
61.30-2.86E 01-2.40E	01	1.867	-35.694	
61.40-2.83E 01-2.38E			-35.717	
61.50-2.81E 01-2.36E	0.1			
01.00-2,01E 01-2,30E		1,834	-35,738	
61.60-2.792 01-2.352	01	1.849		
61,70-2,77E 01-2,33E	01	1.844		
61. 0-2.75E 01-2.32E	01	1.842	-35.798	AND A SECOND SERVICES COMPANY OF A
61.90-2.73E 01-2.31E	01	1.840	-35,816	
	11		-35,833	
62.10-2.70E 01-2.29E			-35,849	
62.20-2.69E 01-2.29E	<b>1</b>	1.845		
62.30-2.68E 01-2.29E				
22 10 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1.850		
62.80-2.67E 01-2.29E	21	1.857		
62.50-2.66E 01-2.29E		1.865	-35,902	
62.00-2.662 01-2.302		1.875	-35,913	
62.70=2,66E 01=2.30E	C1	1.887	-35.922	
62.00-2.67E 01-2.32E	01	1.901	-35.931	
62.00-2.67E 01-2.33E	01	1.016	-35,938	
63.00-2.68E 01-2.35E	11	1.034	-35.945	
63.10-2.69E 01-2.37E	04	1 052	-35,950	
		1.955	-35.954	
63.20-2.712 01-2.402		1.9/3	-35,954	
63.30-2,73E 01-2.43E		1.999	-35.957	
63.40-2,752 01-2.462			-35,959	
63.50-2.772 01-2.502		2.054	-35.960	rn 975 (2 med 925 (2 m 5 ) 5 =
63.60-2.802 01-2.542		2.086	-35,959	
63.70-2.832 01-2.592	01	2. 121	-35,956	* * * * * * * * * * * * * * * * * * * *
63.00-2.872 01-2.652			-35.951	the state of the s
63.90-2,90E 01-2.71E		2 204	-35.943	
	01	2. 46.3	-33,343	
64.00-2.942 01-2.792	21	4.252	-35.932	** 600,0000 010,0000,07
64,10-2,98E 01-2.87E	01	2,306	-35,916	I THE PART OF THE PROPERTY OF THE PARTY OF T
64.20-3,02E 01-2.96E		2,366	-35,893	The Man Court was table of
64.30-3.07E 01-3.06E	01	2.433	-35,861	
64.40-3.10E 01-3.18E		2.508	-35,816	20 40 4 C 4 C 4 C 10 C 20
64,50-3,142 01-3,322		2. 590	-35 750	
64.60-3.172 01-3.472		2.680	-35.651	
0100000 112 01-36418	0.1		-33,031	IV-83

64.70-3.20E	01-3.642	01	2.776	-35.499	
64.80-3,212	01-3.812		2',878	-35, 263	
		01			
64.90-3.212	01=3.932	01	2.981	-34.923	
65.00-3,21E	01-3.922	01	3.684	-34.531	
			3.004	730,00	
65.10-3.192	01-3.792	01	3. 184	-34.201	
65.20-3.16E	01-3.612	01	3.277	-33.976	
00.2043.102				-33,370	
65.30m3.12E	01-3.432	01	3,363	-33.833	
				- 22' 744	
65.40-3.07E	01-3.272	01	3.441	-33.741	
65.50m3.03E	01-3.138	01	3.509	-33,681	
				33 644	
65.50-2.97E	01-3.012	01	3.569	-33,641	
65.70-2.92E	01-2.892	01	3.621	-33.615	
				20' 500	
65.80-2.86E	01-2.79	91	3.666	-33,598	
65.90-2.81E	01-2.702	01	3.705	-33.587	
				4.	
66.00-2.75E	01-2.62	01	3.739	-33,581	
66.10-2.70E	01-2.542	01	3.770	-33.578	
66.20-2.64E	01-2.478	91	3.797	-33.577	
66.30-2.59E	01-2.412	01	3.821	-33.577	
66.40-2.54E	01-2.342	U1	3.843	-33.578	
66.50-2.492	01-2.292	01	3.864	-33.580	
66.60-2.45E	01-2.242	51	3.884	-33,581	
66.70-2.40E	01-2.198	01	3.903	P33.583	
66 Ba-a' 369					
66.80-2.36E	01-2.142	01	3.921	-33.584	
66.90-2.32E	01-2.102	01	3.940	-33.585	
67.00-2,28E	01-2.062	01	3.958	-33,586	
67.10-2.25E	01-2.032	01	3.976	-33.585	
67.20-2.21E	01-1.992	01	3,995	-33.585	
67.30=2.18E	01-1.962	01	4.014	-33.583	
				33' 600	
67.40-2,15E	01-1.942	01	4.034	-33,580	
67.50-2.13E	01-1.912	01	4.053	-33.577	
67.50-2.10E	01-1.892			-33 572	
		01	4.074	-33.573	
67.70-2.08E	01-1.67E	01	4.094	-33.568	
67.80-2.06E	01-1.85E			-33,562	
		01	4.116	433,302	
67.90-2.05E	01-1.848	01	4.138	-33.556	
68.00-2.03E	01-1.832	91	4.160	-33,548	
		The same of the sa	4.100	433,340	
68.10-2.02E	01-1.822	01	4. 183	-33.540	
68.20-2.01E	01-1.822	41	4.207	-33.531	
		120			
68.30-2.01E	01-1.812	01	4.231	-33.521	
68.40-2.00E	01-1.812	01	4.255	-33.510	
		and the second second			
6F.50-2.00E	01-1.82E	01	4.282	-33.498	
68.60-2.00E	01-1-829	91	4.308	-33.485	
	CONTRACTOR OF THE PROPERTY OF	- "			
68.70-2.00E	01-1.832	01	4.336	-33.470	The state of the s
68.80-2.00E	01-1.842	01	4.354	-33.454	
68.90-2.00E	01-1.85E	01	4.394	-33.437	
69.00-2.01E	01-1.872	21	4.425	-33.418	
69.10-2.02E	01-1.88E	01	4.457	-33.397	10 1 10 1 10 10 10 10 10 10 10 10 10 10
69.20-2.02E	01-1.902	01	4.491	-33.373	
69.30-2.03E	07-7 075	01	4.526	-33.347	
	01-1.922	The state of the s			
69.40-2-045	01-1-944				
69.40-2.04E	01-1.942	01	4,563	-33,318	
69.50-2.05E	01-1.942	01	4.563	-33,318 -33,285	THE ROLL WAS TREATED AND LAND AND AND AND AND AND AND AND AND AND
69.50-2.05E	01-1.942	01	4.563	-33,318 -33,285	THE ROLL WAS TREATED AND LAND AND AND AND AND AND AND AND AND AND
69.50-2.05E	01-1.94± 01-1.97± 01-1.99±	01 01	4.563 4.603 4.645	-33,318 -33,285 -33,248	70 000 000 000 000 100 100 100 100 100 1
69.50-2.05E 69.60-2.05E 69.70-2.06E	01-1.94± 01-1.97± 01-1.99± 01-2.01±	01	4,563 4,603 4,645 4,689	-33,318 -33,285 -33,248 -33,206	70 000 000 000 000 100 100 100 100 100 1
69.50-2.05E 69.60-2.05E 69.70-2.06E	01-1.94± 01-1.97± 01-1.99± 01-2.01±	01 01 1	4,563 4,603 4,645 4,689	-33,318 -33,285 -33,248 -33,206	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04±	01 01 01 01	4.563 4.603 4.645 4.689 4.736	-33,318 -33,285 -33,248 -33,206 -33,159	**************************************
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06±	01 01 01 01	4.563 4.603 4.645 4.689 4.736 4.786	-33,318 -33,285 -33,248 -33,206 -33,159 -33,106	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06±	01 01 01 01	4.563 4.603 4.645 4.689 4.736 4.786	-33,318 -33,285 -33,248 -33,206 -33,159 -33,106	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E 70.00-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06± 01-2.09±	01 01 01 01 01	4.563 4.603 4.645 4.689 4.736 4.786 4.838	-33,318 -33,285 -33,248 -33,159 -33,106 -33,046	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 70.00-2.07E 70.00-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06± 01-2.09± 01-2.11±	01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.838 4.893	-33,318 -33,285 -33,248 -33,159 -33,106 -33,046 -32,980	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 70.00-2.07E 70.00-2.07E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06± 01-2.09± 01-2.11±	01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.838 4.893	-33,318 -33,285 -33,248 -33,159 -33,106 -33,046 -32,980	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E 70.00-2.07E 70.10-2.07E 70.20-2.06E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.04± 01-2.06± 01-2.09± 01-2.11± 01-2.12±	01 01 01 01 01 01 01 01	4.563 4.645 4.645 4.736 4.736 4.786 4.838 4.893 4.951	-33,318 -33,285 -33,248 -33,159 -33,106 -33,046 -32,980 -32,980	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E 70.00-2.07E 70.10-2.07E 70.20-2.06E 70.30-2.05E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.06± 01-2.06± 01-2.11± 01-2.12± 01-2.13±	01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.893 4.951 5.011	-33, 318 -33, 285 -33, 248 -33, 106 -33, 106 -33, 046 -32, 980 -32, 907 -32, 827	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E 70.00-2.07E 70.10-2.07E 70.20-2.06E 70.30-2.05E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.06± 01-2.06± 01-2.11± 01-2.12± 01-2.13±	01 01 01 01 01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.893 4.951 5.011	-33, 318 -33, 285 -33, 248 -33, 106 -33, 106 -33, 046 -32, 980 -32, 907 -32, 827	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 70.00-2.07E 70.10-2.07E 70.20-2.06E 70.30-2.05E 70.40-2.04E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.06± 01-2.06± 01-2.11± 01-2.12± 01-2.13± 01-2.13±	01 01 01 01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.893 4.951 5.073	-33,318 -33,285 -33,248 -33,159 -33,106 -32,980 -32,987 -32,827 -32,741	
69.50-2.05E 69.60-2.05E 69.70-2.06E 69.80-2.07E 69.90-2.07E 70.00-2.07E 70.10-2.07E 70.20-2.06E 70.30-2.05E	01-1.94± 01-1.97± 01-1.99± 01-2.01± 01-2.06± 01-2.06± 01-2.11± 01-2.12± 01-2.13±	01 01 01 01 01 01 01	4.563 4.645 4.689 4.736 4.786 4.893 4.951 5.011	-33, 318 -33, 285 -33, 248 -33, 106 -33, 106 -33, 046 -32, 980 -32, 907 -32, 827	

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88.20-3.19E 00-3.05E 00
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88.30-3,00E 00-2.87E 00	10,548	27, 170 27, 172
88.40-2.83E 00-2.70E 00	10.547	•27, 172 Research State (8.18)
88.50-2,66E 00-2.55E 00	10.546	-27-175
88.50-2.51E 00-2.40E 00	10.546	÷27', 177
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88.80-2.23E 00-2.14E 00	10.544	-27. 180
88.90-2.112 00-2.022 00	10.544	-27, 181
89.00-1.992 00-1.922 00		÷27,183
89.10-1,892 00-1.822 00		
89.20-1.802 00-1.742 00	10.543	27.185 P. APRICA HOUSE STANDED
89.30-1.722 00-1.662 00	10.543	-27, 186 The argument and the season and
89.40-1.65E 00-1.60E 00	10.542	-27, 186 - Walley and Carl and March
89.50-1.592 00-1.542 00	10.542	•27, 187
89.50-1.54E 00-1.50E 00	10.542	•27.187
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89.30-1,46E 00-1.44E 00	10.542	-27.187
89.90-1.442 00-1.432 00	10.543	-27, 187
90.00=1.432 00-1.272 00	10.543	-27. 199
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90.20-1.452 00-1.312 00		
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	10.344	를 하면 하시면 생물을 잃게 된다면 하시고 있다. 있는 경에 있는 경에 가장 되는 것이 되었다. 그 사람들이 있는 것은 사람들이 있는 것이다면 하시면 하시면 하시면 하시고 있다. 그 나는 게 되었다.
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91.20-2,12E 00-2,17E CO	10.546	÷27,201
91.30-2,252 00-2,322 00	10.547	<b>~27.201</b>
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91.50-2,532 00-2,652 00		-27,200
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Company of the compan	10.347	-27, 199
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91.80-3.042 00-3.232 00	10.547	27.198
91.90-3.242 00-3.458 00		-27.197 AND MINISTER OF THE OWNER O
92.00-3.442 00-3.682 00	10.548	•27.196 SARVAHAN TO ALL STANDER
92.10-3.662 00-3.922 00	10.548	-27, 194
92.20-3,892 00-4,182 00	10.548	-27, 193
92.30-4.142 00-4.452 00	10.548	-27, 191
92.40-4.40E 00-4.74E 00	10.548	-27,189 0 BEALTHON BECLERAL
92.50-4.682 00-5.042 0	10.548	-27, 186 mg gaz Tana sak anang sa
92.50-4.972 00-5.362 00	10.549	-27,184 POR THOU TO SOME THE PROPERTY OF THE P
92.70-5.282 00-5.702 00	10,549	-27, 181
92.80-5.602 00-6.062 00	10.549	-27, 177 a say a say a say a say a say a say
92.90-5.952 00-6.432 00	10.550	+27,173 to the same and and and the
93.00-6,31E 00-6.83E 00	10.550	-27, 169
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93.20-7, 10E 00-7.69E 00	10.550	-27, 158
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93.40-7.99E 00-8.66E 00	10.551	-27,146
		-27.138
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93.70-9.542 00-1.032 1		-27.121 H - 00 408, FHOT STOVENOR
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93.90-1.142 01-1.252 :1		-27.213 1 60 884.8400 374.0400.88
94.00-1.212 01-1.332 01	10.426	-27,218
94. 10-1. 282 01-1. 412 01	10.406	-27.224 IV-88
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PRC INFORMATION SCIENCES CO ROME N Y
SPACE SURVEILLANCE SOFTWARE SUPPORT. VOLUME 1, PART 1, BOOK 2. --ETC(U)
OCT 76 P R CONTI

RADC-TR-76-261-VOL-1-PT-1- NL AD-A033 514 UNCLASSIFIED 2 of 5 AD A033514

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RELATION OF TELEVISION OF

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                             -6.720 -63.381
                             -6.728 -63.409
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155.80-2.04E 01-2.08E 01
                             -6.736 -63.438
155.90-2.05E 01-2.09E 01
                             -6.744 -63,468
156.00-2.05E 01-2.11E 01
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156.10-2.06E 01-2.13E 01
156.20-2.07E 01-2.14E 01
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                             -6.764 -63.562
                             -6.770 N63,595
156.30-2.07E 01-2.16E 01
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156.40-2.08E 01-2.18E 01
156.50-2.09E 01-2.21E 01
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                            -6.784 -63.700
-6.788 -63.737
156.60-2, 10E 01-2.23E 01
156.70-2.11E 01-2.25E 01
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156.80-2.13E 01-2.28E 01
156.90-2.14E 01-2.31E 01
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                             -6.794 -63.897
157.00-2.15E 01-2.33E 01
157.10-2.17E 01-2.36E 01
157.20-2.19E 01-2.39E 01
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157.30-2.20E 01-2.43E 01
                             -6.790 -63.986
                             -6.787 -64.033
157.40-2.22E 01-2.46E 01
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-6.775 -64.132
157.50-2.24E 01-2.49E 01
157.50-2.26E 01-2.53E 01
157.70-2.28E 01-2.57E 01
                            -6.765 -64.186
157.80-2.30E 01-2.61E 01
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                             -6.743 -64.301
157.90-2.32E 01-2.65E 01
158.00-2.35E 01-2.69E .1
                             -6.728 -64.363
158.40-2.37E 01-2.73E 01
                             -6.711 -64.429
                             -6.691 -64.499
158.20-2.392 01-2.782 01
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158.30-2.42E 01-2.83E 01
                            -6.641 -64.655
158.40-2.44E 01-2.87E 01
                            -6.611 -64.741
158.50-2.47E 01-2.92E 01
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158.80-2.49E 01-2.97E 1
                             -6.540 -64,938
158.70-2.51E 01-3.02E 01
158.80-2.53E 01-3.07E 01
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                            -6.453 -65.170
-6.404 -65.301 IV -99
158.90-2.55E 01-3.11E 01
```

```
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                           -6.351 -65.442
                           -6' 295 -65' 590
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159.80-2.59E 01-3.16E u1
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                           -5.773 -66.818
160.10-2.48E 01-2.89E 01
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160.80-2.23E 01-2.48E 01
160.80-2.20E 01-2.43E 01
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                           -5.505 -67.391
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161.30-2.06E 01-2.24E 01
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161.60-1.96E 01-2.11E 01
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                           -5.409 =67.738
-5.404 =67.773
-5.400 =67.807
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161.80-1.90E 01-2.03# 01
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162.00-1,85E 01-1.96E 01
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                           -5.396 -67.871
162.10-1.82E 01-1.93E 01
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                           -5.395 -67.901
162.30-1.772 01-1.862 01
                           -5.395 -67.931
162.40-1.75E 01-1.83E 01
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                           -5.396 -67.987
162.50-1.73E 01-1.80E 01
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162.50-1.70E 01-1.782 01
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-5.403 -68.066
162.70-1.68E 01-1.75E 01
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-5.409 -68.115
162.80-1.66E 01-1.72E 01
162.90-1.65E 01-1.70E 01
163.00-1.63E 01-1.68E 01
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-5.417 -68.161
163.40-1.61E 01-1.65E 01
163.20-1.59E 01-1.63E 01
                           -5.421 -68.184
-5.426 -68.206
163.30-1.58E 01-1.61E 01
163.40-1.56E 01-1.59E 01
163.50-1.55E 01-1.58E 01
                           -5.430 -68.227
163.60-1.54E 01-1.56E J1
                           -5.435 -68.248
163.70-1.53E 01-1.54E C1
                           -5.440 -68.269
163.80-1.52E 01-1.53E 01
                           -5.445 -68.289
163.90-1.512 01-1.512 01
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-5.461 -68.347
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164.10-1.492 01-1.492 01
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164,40-1,47E 01-1,46E 01
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                             -5,517 -68,540
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    30-1.45E 01-1.42E 01
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165.40-1.46E 01-1.43B 01
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165.50-1.46E 01-1.43E 01
                             -5.528 -68.587
165. 50-1.472 01-1.432 01
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165.70-1.47E 01-1.44E 01
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165. 40=1.48E 01=1.44E U1
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166.00-1.50E 01-1.46E 01
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166.30-1,52E 01-1.49E 01
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166.90-1.65E 01-1.63E C1
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167.20-1.742 01-1.732 J1
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167.30-1,772 01-1.778 01
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167.40-1.80E 01-1.82E 01
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167.50-1.84E 01-1.87E 01
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167. 80-1.88E 01-1.92E 01
                             -5.414 -68.903
167.70-1,93E 01-1.98E 01
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167.80-1.97E 01-2.05E 01
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                             -5.307 -68.961
-5.257 -68.984
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168.00-2.07E 01-2.22E 01
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-5.127 -69.042
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-4.707 =69.375
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168.90-2.32E 01-3.58E 01
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                             -4.757 -71.753
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169.20-2,15E 01-2.61E 01
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                             -3.840 -71.991
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169.30-2.08E 01-2.42E 01
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169.50-1,93E 01-2.12E C1
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169.50-1,85E 01-2.00E 01
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                             -3.593 -72.100
169.70-1.78E 01-1.90E 01
169.80-1.712 01-1.802 01
                             -3.554 -72.118
169.90-1.64E 01-1.71E 01
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170.00-1,582 01-1.632 01
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                            -3.466 -72.165
-3.447 -72.179
170.40-1.52E 01-1.55E 01
170,30-1,40E 01-1.41E 01
                             -3.429 -72.192
-3.414 -72.204
170.80-1,35E 01-1.35E
                       01
                            -3,402 -72,216
170,50-1,29E 01-1,29E 01
170.60-1.242 01-1.242 01
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                             -3,382 -72,239
170,70-1,19E 01-1,18E 01
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170.80-1.15E 01-1.13E 01
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171 00 1: 06E 01 1 04B 01
                            3, 362
                                   :72:271
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171.10-1.02E 01-9.98E 00
171.20-9.78E 00-9.56E 00
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                           -3.350 -72.301
171.30-9.39E 00-9.16E 00
                           -3.348 -72.311
171.80-9.02E 00-8.78E 00
171.50-8.66E 00-8.41E 00
                           -3.346 -72.320
                           -3.345 -72,330
171.50-8,32E 00-8,06E 00
   70-7.982 00-7.722 00
                           -3.344 -72.339
                           -3.344 -72,348
171.80-7.66E 00-7.39E 00
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171.90-7.34E 00-7.08E 00
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172.00-7,04E 00-6.77E 00
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172.10-6.75E 00-6.48E 00
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172.20-6,46E 00-6,20E UO
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172.40-5.92E 00-5.67E 00
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172.70-5.18E 00-4.94E 00
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                           -3.354 -72.432
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172.90-4.722 00-4.492 00
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                           -3.358 -72,447
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                           -1.571
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                                   -70.711
173.40-3,50E 00-3.50E 00
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                           -1.573 -70.708
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                           -1.573 -70.706
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173. $0-2;52E 00-2.68E 00
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                                   -70.702
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-1.577 -70.699
                           -1.577 -70,697
174.20-1.64E 00-1.94E 00
                                   -70.696
174.30-1.44E 00-1.76E 00
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174.50-1.05E 00-1.42E 00
174.60-8.64E-01-1.26E 00
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                                   -70.691
174.70-6.83E-01-1.10E 00
                           -1.581
                                   -70.690
                           -1.581
                                   -70.688
174.80-5.08E-01-9.45E-01
174.90-3.37E-01-7.94E-01
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                           -1.582
175.00-1.71E-01-6.46E-J1
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175.10-1.02E-02-5.02E-01
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175.20 1.46E-01-3.61E-01
                           -1.553
                                   -70.683
                           -1.584 -70.681
175.30 2.98E-01-2.24E-01
175.40 4.45E-01-9.04E-02
                           -1.584 -70.680
175.50 5.88z-01 3.99g-02
                           -1.585 -70.679
175.60 7.26E-01 1.67E-01
                           -1.585 -70.678
175.70 8.60E-01 2.90E-01
                           -1.586 -70.676
175.80 9.90E-01 4,11E-1
                           -1.366 -70.675
175.90 1.122 00 5.282-01
                           -1.586 -70.674
176.00 1.24E 00 6.42E-01
                           -1.587 -70.673
                           -1.587 -70.672
176.40 1.36E 00 7.53E-01
                           -1.587 -70.671
176.20 1.47E 00 8.61E-01
176.30 1.58E 00 9.65E-01
                           -1.588 -70.670
                           -1.588 -70.669
176.40 1,69E 00 1.07E 00
175.50
       1.792 00 1.172 00
                           -1.588 -70.668
176.60 1,89# 00 1.26# 00
                           -1.568 -70.667
                           -1.588 -70.666 IV -102
176.70 1.992 00 1.352 00
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176.90 2.17E 00 1.53E 00
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                                -1.589 -70.664
177.10 2.33E 00 1.70E 00
177.20 2.41E 00 1.78E 00
                                -1.589 -70.664
                                -1.589 -70.663
                                -1.589 -70.662
177.30 2.49E 00 1.85E 00
177.40 2,56E 00 1.92E 00
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177.50 2.63E 00 1.99E 00
                                -1.589
                                        -70,661
177.50 2.69E 00 2.06E 00
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177.70 2.75E 00 2.13E 00
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177.00 2.01E 00 2.19E 00
177.00 2.87E 00 2.25E 00
178.00 2.92E 00 2.31E 00
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                                -1.589 -70.659
178, 10 2,972 00 2,362 00
                                -1.589 -70.659
178.20 3,02E 00 2.41E 00
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178,30 3,062 00 2,462 00
178,40 3,102 00 2,512 00
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                                -1.589 -70.658
178,50 3,142 00 2,552 00
                                -1,589 -70,658
-1,588 -70,658
178.60 3.172 00 2.592 00
178.70 3.20E 00
178.80 3.23E 00
                   2.63± 00
2.67± 00
                                -1,588 -70,658
-1,588 -70,658
178,90 3,26E 00 2,70E 00
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179.00 3.28E 00 2.73E 00
                                -1.587 -70.658
179, 10 3,30E 00 2,76E 00
                                -1,587 -70,658
179.20 3.32E 00 2.79E 00
                                -1.587 -70.658
179.30 3.33E 00 2.81E 00
                                -1.586 -70.658
179.40 3.34E 00 2.83E 00
                                -1.586 -70.658
179.80 3,35E 00 2,85E 00
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179.60 3.35E 00 2.86E 00
                                -1.585 -70.659
                                -1.585
179.70 3,35E 00
                                       -70,659
                   2.88E 00
179.00 3.35E 00 2.89E 00
                                -1.585 -70.659
179.90
179,90 3,35E 00 2,90E 00
180.00 3,34E 00 2,90E 0
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                                -1.584 -70.660
```

Plots from the Sample Output

080.00 486.15 000.00 868.15

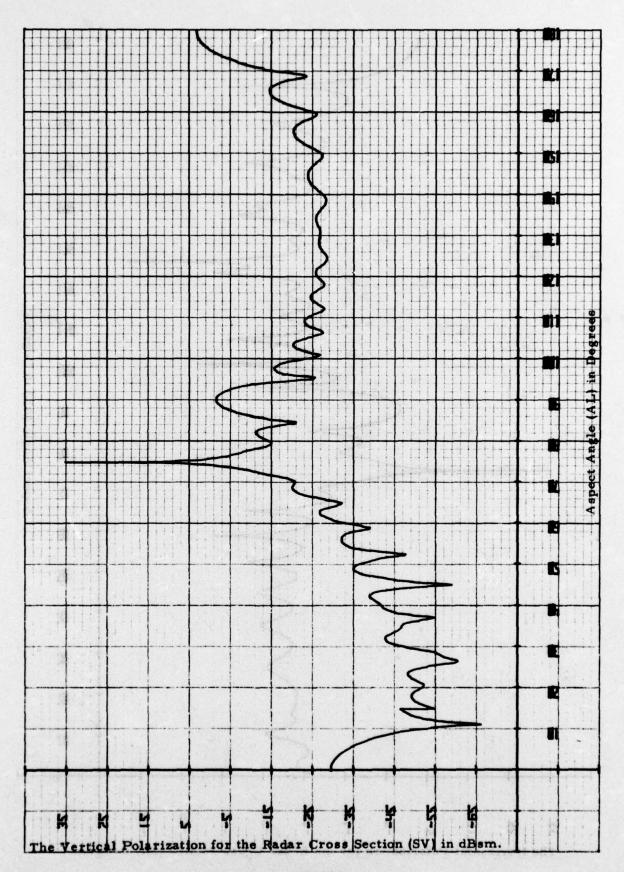
\$\$\$150 005.7- .00 0\$put 00 000.5 04.371

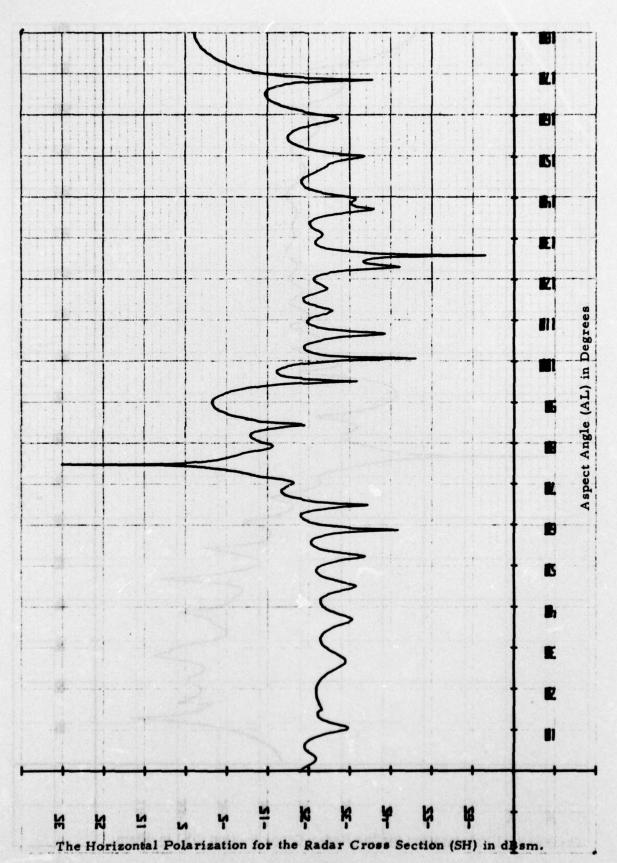
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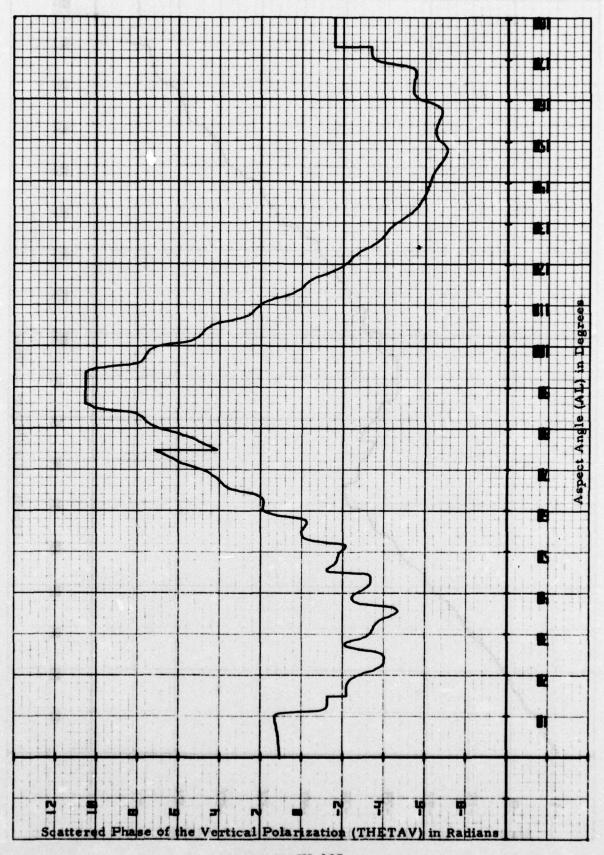
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501 White

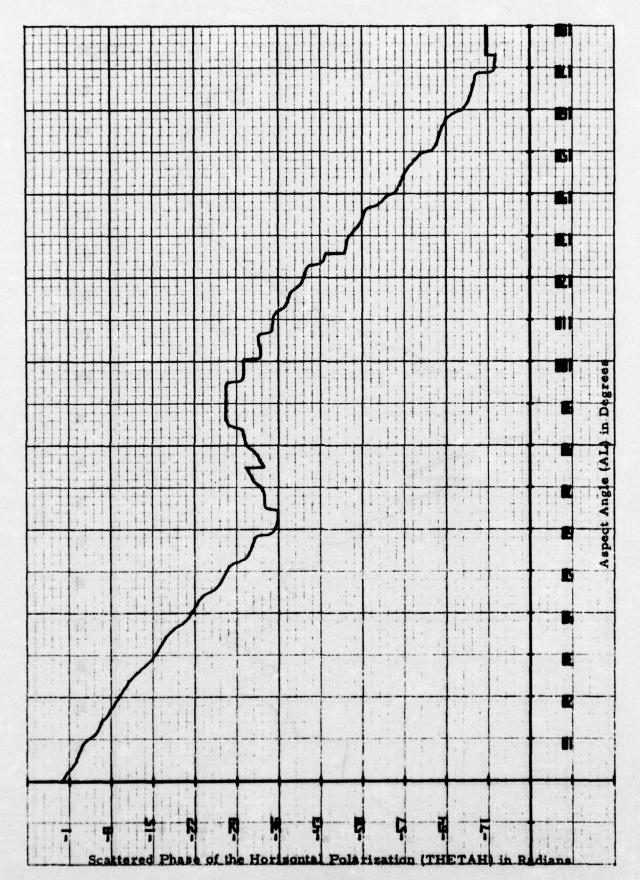




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IV-108

# D. CYLINDER Program

## 1. Introduction

The CYLINDER program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the program GDT01 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

## 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the CYLINDER program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular cylinder.

## 3. Computer Program Operating Environment

- a. Computer
  HIS-6000
- b. Source Language

  FORTRAN Y under GCOS.
- c. Memory Requirement
  - d. Typical Processing Time Required

    0.0050 hours (18 seconds)
  - e. Peripheral Equipment Requirement

    Four disc files (file codes: 07,08,09,10)

## f. Subroutines Used

Subroutines obtained from SXSA Program File:

UPDAT

BESS

GAM

PLTGDT

## 4. Inputs

The inputs which are needed for the executing of the CYLINDER program are as follows:

A - Radius of cylinder (inches)

H - Half height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

BET - Azimuth bistatic angle (degrees)

#### Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

variable 1 name = (value),
variable 2 name = (value),
:

variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the angle at which the target is viewed (BISTATIC),
- o vary the size of the cylinder.

## 5. Output

Output from the CYLINDER program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is.

file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth

increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

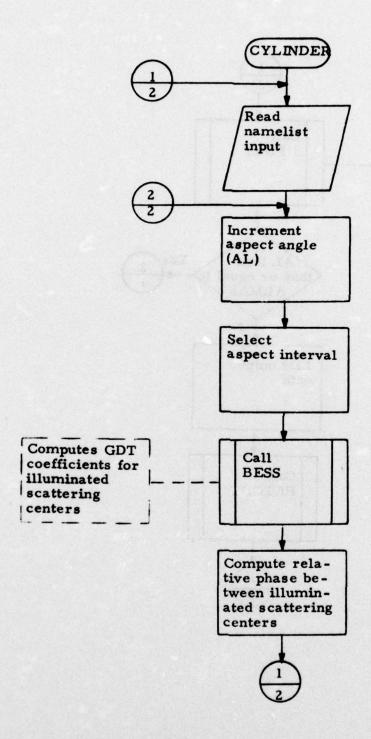


Figure N-3 Logic Flow Diagram for CYLINDER Program (Page 1 of 2)

Comment of the second

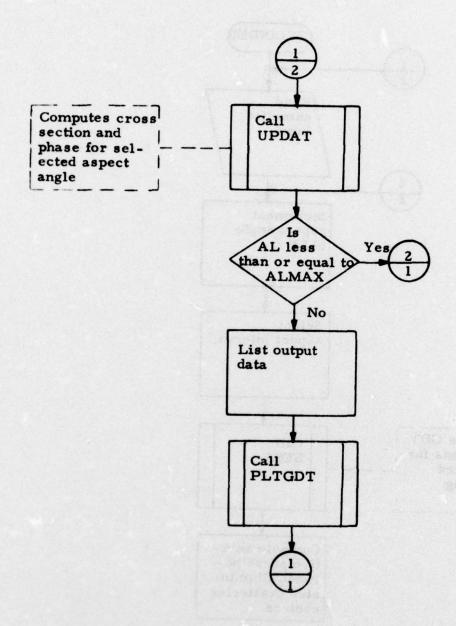


Figure IV-114 Logic Flow Diagram for CYLINDER Program (Page 2 of 2)

ETOLOGY:

```
IDENT
                CLEARY, NEUFFER , 65121104RADC
5
       USERID
                CLEARYSTHREE
5
       LØWLØAD
5
       OPTION FORTRAN
                CLEARY / ØCYL
5
       SELECT
5
       SELECT
                CLEARY / ØXSA
5
      EXECUTE
$
       LIMITS 05,22K,,10K
5
       PRMFL
                07, W. L. CLEARY / STØRE!
5
       PRMFL
                08, W, L, CLEARY/STØRE2
S
       PRMFL
                09, W, L, CLEARY/STØRE3
5
       PRMFL
                10, W, L, CLEARY/STØRE4
       DATA
                05
SINPUT
 A=7.868,
 H=22.16,
 CLAM=2.0056,
 DELAL=0.1,
 ALMIN=0.0,
 ALMAX=90.0.
 AL=0.0,
 BET=10.25 $
       ENDJØB
```

	ADC 63	35/64	BATCH	J	)B
SNUMB NUMBER PROGRAMMER			DATE		TIME
			9/9/7	5	1000
			TELEPHONE		
SMITH			x4753		
RADC ENGINEER			TELEPHONE SYMBOL		
CLEARY			x4765		OCSA
		PES AS	SIGNED		
REEL NO	WRITE	READ			TITLE
NONE			100		
HOME	10 T T T		+	-	
			-	10	
	100				
			1000		
					and the second
PERIPHERAL		u E C	السل	-	
X READER		6			PUNCH
DISC # O			ACTIVITI		INKS
PROCESSOR TIME . 05			1		
TOTAL RUN		05	PRINT 10K		
			KPECTED		
NO. OF BINA		<5	NO. OF C	ОМС	ECKS
		NO		-	
FROM:	MC Tro:		MODE	Jou	NO OF F
	1		BCD		10. OF F
			BINA	20200	L
SF	ECIAL C	PERA	OR INST	SUC	TIONS
				William Co.	de II requi

HIS-6000 Batch Submittal Form

Source Listing of the CYLINDER Program

,	PROGRAM CYLINDER AZIMUTH SISTATIC	00001000
		00001010
	0MHON/NAM/YY1(2000),YY2(2000),YY3(2000),YY4(200U);XX(2000),11	00001020
C	OMMON/VALUE/PTS, SUMV, SUMH, A, H, CLAH, BET	00001030
C	OMPLEX EUR1. EUR2, EUR3, EUR4, EUR5, EUR6, EUR7; EUR8, EUR9, EUR10,	00001040
X	EURII, RSMASV, 754ASH, RSHBSV, RS4BSH, ZV, ZH, ZVC, ZHC, SSV, SSH	00001050
N.	AMELIST/INPUT/A.H.CLAM, DELAL, ALMIN, ALMAX, AL, BET	00001060
2000	ORMATCIHI, ////ADX, TCYLINDER AZIMUTH BISTATIC - INPUTS -1,	00001070
•/	1//29x, 'RADIJS OF CYLINDER IN INCHES (A) . 1,F14.7;	00001080
• • • • • • • • • • • • • • • • • • • •	2/29x, THALF HEIGHT OF CLINDER IN INCHES (H) # 1,F14.7.	00001390
	(/29X, WAVE LENGHT IN INCHES (CLAM) # 1,F14;7; (/29X, INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 1,F14,7;	00001100
	1/29x, MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 1,F14.7,	00001110
	//29x HAXIHUM ASPECT ANGLE IN DEGREES CALMAX) - 1,P14,7;	00001130
.,	//29x. ASPECT ANGLE IN DEGREES (AL) F14.7	00001140
	1/29X . AZIMUTA BISTATIC ANGLE IN DEGREES (BET) . 1,714.7,	00001150
	141)	00001160
	DRHATTIX, SH AL, SHSVIDBSH, ); SHSHIDBSH; ), SH THETAV,	00001170
MOI		00001180
	ORMAT(1x,F7.2,172E9.2,072F8.3,2F12.5)	00001190
		00001200
<u> </u>		00001210
		00001220
		00001230
	INPUT - VAMELIST -INPUT	00001240
	RADIUS OF CYLINDER (INCHES)	00001250
C	# # HALF HT. OF CYLINDER (INCHES)	00001260
C	AM & WAVE LENGTH (INCHES)	00001270
	LAL INCREMENT IN ASPECT ANGLE (DEGREES)	00001280
	MINE MINIMUM ASPECT ANGLE (DEGREES)	00001290
	AL ASPECT ANGLE (DEGREES)	00001300
	BET AZIMUTH BISTATIC ANGLE (DEGREES)	00001320
	DETERMINE STATES AND AND TO STATE STATES AND	00001320
	EAD(05, 1NPUT, END=999)	00001340
	TITE(36,2000) A,H,CLAM,DELAL,ALMIN,ALMAX,AL,BET	00001350
	META . U.	00001360
	(V2 = 0,	00001370
	4H2 = 0.	00001380
RI	LC1 * .0254*.0254	00001390
P	1 • 3,14159265	00001400
	R . PI/180.	00001410
	TD = 180./P1	00001420
	1 . BEYODTR	00001430
	BET . BET/2.	00001440
	LAL - DELAL-DIR	00001450
	MIN = ALMINODIR	00001460
	MAX ALMAYAUTA	00001470
	L = AL+DTR	00001480
-	O = AL C = 2. PI + COS (HBET)/CLAM	00001490
6	- C. 4L 14003 ( U3E 1 ) / OLAN	00001500

```
C2 = P1/4.
                                                                             00001520
   C3 * 2. +P1/3.
                                                                             00001530
   C4 = 2. +CK+A
                                                                             00001540
   C5 = 2. + CK+H
                                                                             00001550
   c6 = 2./3.
                                                                             00001560
   C7 = 4./3.
                                                                             00001370
   C9 . COS(C3)
                                                                             00001580
   C10 = SIN(C3)
                                                                             00001590
   C11 . 1./(C9-C35(2. *BET/3.))
                                                                             00001600
   CANSC = 2.44280784*COS(HBET)
                                                                             00001510
   CNSBC = 2.2548279+COS(HBET)
                                                                             00001620
                                                                             00001530
   CALS = C1-HBET
                                                                             00001640
   GO TO 95
                                                                             00001650
10 11 = 11+1
                                                                             00001660
   C12 = C4.SIN(A_)
                                                                             00001670
   C13 = C5+COS(A_)
                                                                             00001680
   IF (C12 . GE . CANSC) GO TO 20
C14 = C6+C10+S3RT(A/CK)
                                                                             00001690
                                                                             00001700
   CCAUSE = CK.A
                                                                             00001710
   IF (AL . EQ . 0. ) GO TO 15
CCAUS1 = 1,/SIV(AL)
                                                                             00001720
                                                                             00001730
   CCAUS = CCAUS1
   1F (CCAUS2-CCAJS1) 15,15,25
                                                                             00001750
15 CCAUS = CCAUS2
25 CONTINUE
                                                                             00001760
                                                                             00001770
   C15 . SQRT(CCAJS)
                                                                             00001780
   C15 . A.C4.SORT(01)
                                                                             00001790
   C17 : 1./(C9-C35(C7+AL))
                                                                             00001300
   ORDER = 1.
                                                                             00001810
   CALL BESS (ORDER, C12, BS)
                                                                             00001820
   C18 = 85
                                                                             00001930
   RH1 = -C1
                                                                             00001840
   RH2 = -C12+C2
                                                                             00001350
   RH3 = -C13
                                                                             00001360
   CSRH1 - COS(RHI)
   SNRH1 = SIN(RH1)
                                                                             00001370
                                                                             00001980
   CS3H2 = COS(RH2)
                                                                             00001390
   SNRH2 = SIN(RH2)
                                                                             00001900
   CSRH3 = COS(RH3)
                                                                             00001910
   SNAHA = SIN(843)
EJAI = CAPLX(CSTAI, SNRHI)
                                                                             00001920
                                                                             00001930
   EJR2 = CIPLX(CSRH2, SNRH2)
EJR3 = CMPLX(CSRH2, -SNRH2)
                                                                             00001740
                                                                             00001950
   EJR4 = CHPLX(CSR43, SNRH3)
EJR5 = CHPLX(CSR43, -SNRH3)
                                                                             00001760
                                                                             00001970
   CBXOX = 1.5
IF (AL . EQ . 0;) GO TO 35
                                                                             00001780
                                                                             00001990
   CBXOX = C18/C12
                                                                             00002000
35 CONTINUE
                                                                             00002010
   RSMASV=(C16+C8X0X+FJR1-C14+C15+C11+(EJR2+EJR3))
                                                                             00002020
   RSMASH=(C16+CRXOX+EJR1+C14+C15+C11+(EJR2+EJR3))
                                                                       00002030
```

```
RSVASV=C14+C15+(C17-C11)
                                                                                                00002040
    RSVASH=C14+C15+(C17+C11)
IF (AL-CAL2) 61,51,62
                                                                                                00002050
                                                                                                00002060
61 RSVASV . C.
                                                                                                00002070
    RSNASH . ..
                                                                                                00002380
                                                           00002100
    ZV = R5MASV+EJR4+RSNASV+FJR2+EJR5
ZH = R5MASH+EJR4+RSNASH+EJR2+EJR5
                                                                                                00002110
    GO TO 40
                                                                                                00002120
   1P (C13 . LE . CYSRC) GO TO 30

C19= C6=C10=SQRT(A/(CK*SIN(AL)))

C2J = 1./(C9 - COS(C6=(P[+2.=AL)))

C21 = 1./(C9 - COS(C6=2.=AL))

C22 = 1./(C9 - C15(C6=(P[-2.=AL)))

RS1SV = C19=(C20-C11)

RS1SV = C19=(C20-C11)
20 1F (C13 . LE . CVSRC) 60 TO 30
                                                                                                00002140
                                                                                                00002160
                                                                                               00002170
                                                                                                00002180
    RS154 = c19+(C20+C11)
    RS2SV = C19 (C21 - C11)
RS2SV = C19 (C21 - C11)
IF (AL - CAL2) 63,63,64
                                                                                                00002200
                                                                                                00002210
63 RS2SV = 1.
                                                                                                00002230
    R$254 = U.
                                                                                                00002240
64 CONTINUE
                                                                                               00002250
   R$3$V = C19*(C22-C11)
R$3$N = C19*(C22*C11)
IF (AL-CAL3) 66,65,65
                                                                                                00002260
                                                                                                06002280
65 RS3SV . ..
                                                                                                00002290
    RS3SH . .
                                                                                                00002300
66 CONTINUE
                                                                                                00002310
   CONTINUE
RM4 = C2-(C12-C13)
RM5 = C2-(C12-C13)
                                                                            00002320
00002330
00002340
00002350
                                                                                                00002320
    SNRH4 = SIN(RH4)
                                                                                                00002350
   SNMM4 = 310 (RH5)

CSRM5 = COS(RH5)

SNRM5 = SIN(RH5)

EJR6 = CMPLX(CSR44,SNRH4)

EJR7 = CMPLX(CSR45,SNRH5)

EJR8 = CMPLX(CSR45,-SNRH5)

ZV=R$1SV+EJR6+R$2SV+FJR7+R$3SV+EJR8

ZH=R$1SH+EJR6+R$2SH+EJR7+R$3SV+EJR8

CD TO 40
                                                                                                00002370
                                                                                                00002380
                                                                                                00002390
                                                                                            00002400
                                                                        00002430
30 DEL = C1-AL C23 = SORTTAP(SRECOS(DEL3))
                                                                                                00002440
                                                                                                00002450
                                                      00002470
03002480
00002500
00002510
    C24 . 1.1
   C25 = C5.SIN(DEL)

IF (DEL . EQ . .) GO TO 45

C24 = (SIN(C25))/C25
                                            00002510
00002530
45 CONTINUE
    RHII . CI
    CSRH11 = COS(R411)
    SNRH11 = SIN(RH11) 00002530
EJR11 = GMPLX(CSRH11,SURH11) 0000254C
RSMBSV=(-G23+G5+G24+EJR11-G7+G19+G23+G11+GOS(G25)) 00002550
```

```
RSMBSH=(-C23+C5+C24+EJR11+C7+C10+C23+C11+COS(C25))
                                                                                00002560
     C25 . C4.COS(DEL)
                                                                                00002570
     C27 = 1./(C9 -305(C7+DEL))
RSVBSV = C10+C23+(C27-C11)+C6
                                                                                00002580
                                                                                00002590
     RSVBSH = C10+C23+(C27+C11)+C6
                                                                                00002500
     IF (AL-CAL3) 69,57,67
                                                                                00002610
  67 RSVBSV = C.
                                                                                00002520
     RSVBSH = C.
                                                                                00002630
  68 CONTINUE
                                                                                00002640
     RH6 = -C26+C2
                                                                                00002550
                                                                                00002660
     RH7 = C26-C25-32
     ESAHS = COSTAHS)
                                                                                00002570
                                                                                00002680
     SNRH6 = SIN(RH5)
     CSRH7 = COS(RH7)
                                                                                00002690
     SNRH7 = SIN(RH7)
                                                                                00002700
     EUR9 = CMPLX(CSR46, SNRH6)
                                                                                00002710
     EJR10 = CMPLX(CSRH7, SNEH7)
ZV = RSMRSV+EJR9+RSNRSV+EJR10
                                                                                00002720
                                                                                00002730
     ZH = RSMHSH+EJR9+RSNBSH+EJR10
                                                                                00002740
     GO TA 40
                                                                                00002750
  40 ZVC . CONJG(ZV)
                                                                                00002760
     ZHC . CO IJG(ZH)
                                                                                00002770
     SSV = ZV+7VC
                                                                                00002780
                                                                                00002790
     REALSV = REAL(SSV)
                                                                                00002300
     REALSH = REAL(SS4)
                                                                                00002810
     RELSV1=REALSV+RE_C1
                                                                                00002320
100
     RELSV2 = 10. . A _ 0316 (RELSV1)
                                                                                00002830
     RELSH1 = REALSHORELC1
                                                                                00002940
101 RELSH2 = 10. -4-031 (RELSH1)
                                                                                00002850
     RHV1=ATANZ(AIMAG(ZV), REAL(ZV))
                                                                                00002360
                                                                                00002870
     CALL UPDAT (RHV1, RHV2, PI, THETAY)
     RH-1=ATA-2(AIMAG(ZH), RFAL(ZH))
                                                                                00002390
     CALL UPDAT (RHH1 . RHH2 . PI . THETAH)
     AL = RTD.AL
                                                                                00002900
     WRITE( 16.2002) A. RELSVZ, RELSH2, THETAV, THETAH
                                                                                00002910
     YY1(II) = RELSV2
                                                                                00005350
     YYZ(11) = RELS+2
YY3(11) = THETAV
                                                                                00002930
                                                                                00002940
     YY4(11) = THETAH
                                                                                00002750
     XX(II) = AL
                                                                                00002760
     AL . DTROAL
                                                                                00062970
     AI VDY=11
                                                                                00002980
     AL=AINTX+DELAL +ALT
                                                                                00002300
     IF (AL-ALMAX) 1 .11,29
                                                                                00003000
 200 CALL PLTTDT
                                                                                00003010
     GO TO 1
                                                                                03003020
  95 CONTINUE
                                                                                00003030
     THETAV =
                                                                                00003040
     THETAH =
                                                                                00003050
     WRITE(36.2001)
                                                                                00003060
     GO TO 10
                                                                                00003070
```

999 CONTINUE STOP END 00003080 00003090 00003100

The second secon

Sample Input for the CYLINDER Program as Output

## CYLINDER AZIMUTH BISTATIC - INPUTS -

RADIUS OF CYLINDER IN INCHES (A) = 7.8680000

HALF HEIGHT OF CLINDER IN INCHES (H) = 22.1600001

HAVE LENGHT IN INCHES (CLAM) = 2.0056000

INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 0.1000000

MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 90.0000000

ASPECT ANGLE IN DEGREES (AL) = 0.

AZIMUTH BISTATIC ANGLE IN DEGREES (BET) = 10.2500000

Sample Output for the CYLINDER Program

10-861 -- 10-000 6-01 r 10-861 -- 1-20-0-1 7-86.0

Seall

ALSV (DASM.) SH(DBSM.)	THETAV	THETAH
0. 1.88E 01 1.58E 01	-1.620	-1.645
0.10 1.88E 01 1.38E 01 0.20 1.88E 01 1.38E 01	-1.616 -1.617	-1.646 -1.646
0.30 1.87E 01 1.87E 01	-1.615	-1.646
0.40 1.87E 01 1.57E 01	-1.613	-1.645
0.50 1.86E 01 1.86E U1	-1.610	-1.644
0.60 1.85E 01 1.95E 01	-1.607	-1.642
0.70 1.84E 01 1.94E 01	-1.604	-1.640
0.80 1.83E 01 1.83E 01	-1.600	-1.638
0.90 1.816 01 1.516 01	-1.596	-1.634
1.00 1.80E 01 1.50E 01 1.10 1.78E 01 1.78E 01	-1.592 -1.587	-1.631 -1.626
1.20 1.76E 01 1.76E 01	-1.582	-1.622
1.30 1.74E 01 1.74E 01	-1.577	-1.616
1.40 1.72E 01 1.72E U1	-1.571	-1.611
1.50 1.69E 01 1.69E 01	-1.566	-1.604
1.60 1.67E 01 1.57E 01	-1.559	-1.597
1.70 1.64E 01 1.54E 01	-1.553	-1.590
1.80 1.61E 01 1.61E 01	-1.546	-1.582
1.90 1.57E 01 1.57E U1	-1.539	-1.573
2.00 1.546 01 1.546 01	-1.532	-1.564
2.10 1,50E 01 1.50E 01 2.20 1.46E 01 1.46E 01	-1.525 -1.517	-1,554 -1,543
2.30 1.42E 01 1.42E 01	-1.509	-1.532
2.40 1.376 01 1.376 01	-1.502	-1.520
2.50 1.32E 01 1.32E 01	-1.494	-1.508
2.60 1.27E 01 1.27E 01	-1.486	-1.494
2.70 1.216 01 1.216 01	-1.477	-1.480
2.80 1.15E 01 1.15E 01	-1.469	-1.466
2.90 1.09E 01 1.09E 01	-1.463	-1.453
3.00 1.04E 01 1.04E 01	-1.456	-1.438
3.10 9.74E 00 9.74E 00 3.20 9.06E 00 9.06E 00	-1.449	-1.423 -1.408
3.20 9.06E 00 9.06E 00 3.30 8.32E 00 8.32E 00	-1.437	-1.392
3.40 7.526 00 7.515 00	-1.431	-1.375
3.50 6.64E 10 6.63E 00	-1.427	-1.357
3.60 5.67E 00 5.56E 00	-1.424	-1.338
3.70 4.61E 00 4.58E 00	-1.423	-1.318
3.80 3.42E 00 3.38E 00	-1.424	-1.296
3.90 2.08E 00 2.03E 00	-1.430	-1.272
4.00 5.55E-01 4.72E-01	-1.442	-1.246
4.10-1.22E 00-1.35E 00 4.20-3.32E 00-3.55E 00	-1.463	-1.216
4.20-3.32E 00-3.35E 00 4.30-5.92E 00-6.35E 00	-1.5 3 -1.577	-1.179 -1.128
4.40-9.226 00-1.026 01	-1.728	-1.043
4.50-1.33E 01-1.56E 01	-2.088	-0.820
4.60-1.56E 01-2.47E 01	-2.874	0.721
4.70-1.27E "1-1.52E U1	-3.532	1.658
4.80-9.34E 19-1.03E U1	-3.8.4	1.820
4.90-6.85E 00-7.32E 00	-3.922	1.895
5.00-5.075 10-5.285 00	-3.980	1.944
5.10-3.58E 0-3.76E 00	-4.010	1.984
5.20-2.47E 00-3.70E 00	-4.025	2.003
5.30-1.59E 00-2.33E JO 5.40-8.84E-01-1.97E 00	-4.030	2.056
5.50-3.226-01-1.285 00	-4.125	
5.60 1.20E-01-7.13E-u1	-4.118	2.146 IV-126 2.185

```
2,223
5.70 4.60E-01-2.37E-01
                           -4.008
5.80 7.10E-01 1.05E-01
                           -3.997
                                     2.294
5.90 8.81E-01 3.34E-01
                           -3.984
 6.00 9.79E-01 5.89E-U1
                           -3.970
                                     2.328
 6.10 1.01E 10 7.25E-01
                           -3.955
                                     2.361
                           -3.940
 6.20 9.75E-61 7.98E-01
                                     2.393
6.30 8.81E-01 8.09E-01
                           -3.925
                                     2.425
6.40 7.26E-01 7.62E-01
6.50 5.13E-01 6.55E-01
                                     2.456
                           -3.909
                                     2.486
                           -3.893
 6.60 2.41E-01 4.71E-01
                                     2.516
                           -3.877
 6.70-9.11E-02 2.56E-U1
                                     2.545
                           -3.861
 6.80-4.85E-11-2.06E-02
                           -3.846
                                     2.573
 6.90-9.44E-71-3.72E-01
                           -3.831
                                    2.601
 7.00-1.47E 00-7.93E-01
                                     2.627
                           -3.817
 7.10-2.07E 10-1.29E 00
                           -3.8.5
                                     2.653
                           -3.794
 7.20-2.76E 00-1.87E 00
                                     2.678
 7.30-3.53E 00-2.54E 00
                                     2.702
                           -3.787
 7.40-4.41E 00-3.33E 00
                           -3.782
                                     2.725
 7.50-5.40E #0-4.24E 00
                           -3.783
                                    2.746
 7.60-6.54E 00-5.30E 00
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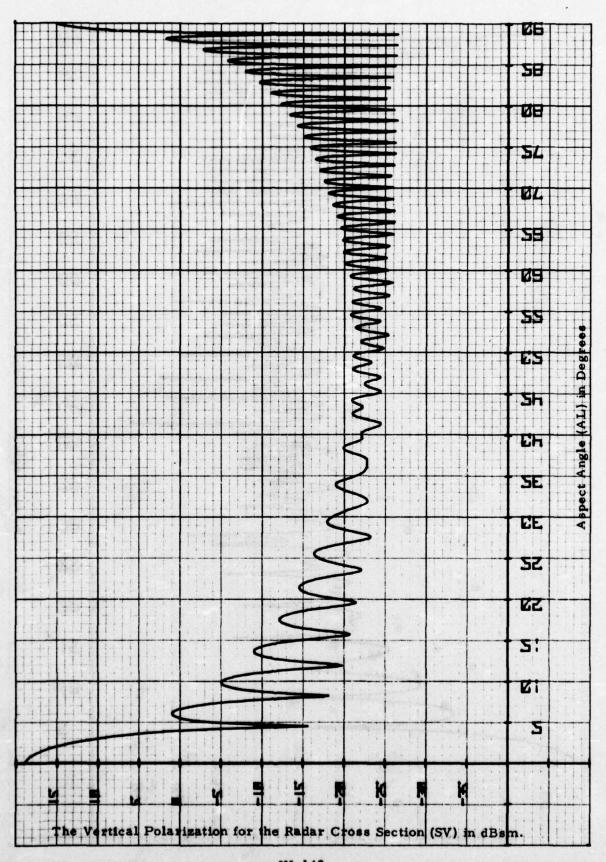
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83.00-1.03E 01-9.375 00
                           73.1.65
                                   10.064
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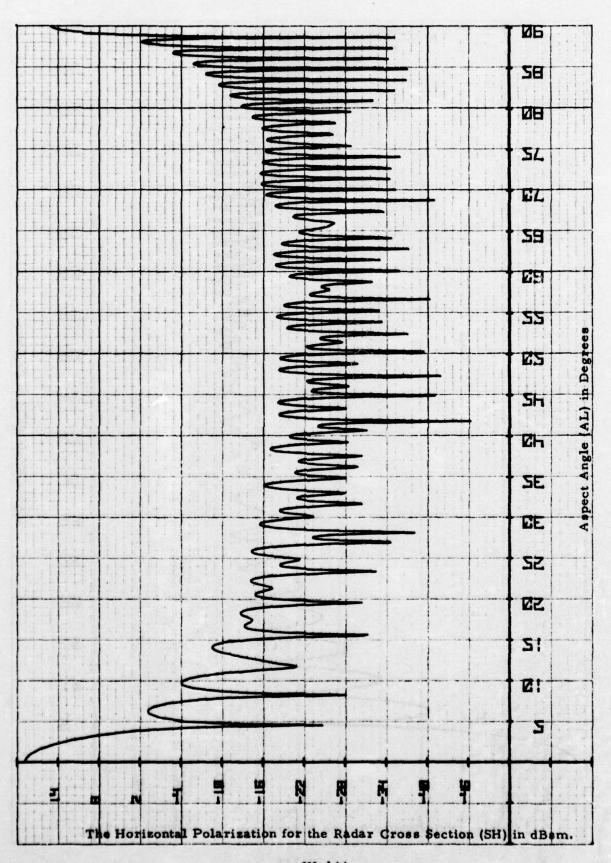
83.10-1.14E 01-1.08E 01	73.100	10.048	
83.20-1.33E 01-1.24E 01	73.153	10.031	
83.30-1.65E D1-1.51E D1	73.260	10.008	
83.40-2.19E 01-2.01E 01	73.574	9.965	
83.50-2.59E 01-3.70E 01	74.906	9.494	**************************************
83.60-1.88E 01-2.22E 01	75,679	6.970	
83,70-1,43E 01-1,36E 01	75.862	6.911	
83.80-1.16E 01-1.22E 01	75.937	0.887	
83.90-9.77E 00-1.00E 01	75,979	6.872	
84.00-8.66E 00-8.68E 00	76.006	6.860	
84.10-8.10E 00-7.93E 00	76.028	6.849	
84.20-8.04E 00-7.71E 00	76.048	6.840	
84.30-8.49E 00-8.01E 00	76.069	6.831	
84.40-9.536 00-8.586 00	76,096	6,823	
84.50-1.136 01-1.056 01	76.137	6.814	AND
84.60-1.44E 01-1.32E 01	76.218	6,805	
84.70-1.99 01-1.93 01	76.457	6.794	
84.80-2.62E 01-3.72E 01	77.852	6.700	
84.90-1.77E 01-1.81E 01	78.761	3.837	
85.00-1.27E 01-1.28E 01	78.929	3.767	
85.10-9.73E 00-9.77E 00	78.993	3.735	
85.20-7.82E 00-7.94E UO	79.028	3,714	
85.30-6.62E 10-6.62E 10	79.051	3.697	
85,40-5,98E 00-5.78E 00	79.068	3,682	
85.50-5.84E 00-5.34E UO	79.084	3.668	
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85.70-7.17E 00-7.19E UO	79.120	3.638	
85.80-8.90E ng-8.94E 00	79.150	3.619	
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86.20-1.58E C1-1.515 01	81.887	0.583	10 1 10 10 10 10 10 10 10 10 10 10 10 10
86.30-1.04E 01-1.04E U1	82.027	0.527	
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86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.87E 00	82.027 82.078 82.105 82.122	0.527 0.503 0.486 0.474	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.40-3.87E 00-3.87E 00 86.70-3.12E 10-3.12E 00	82.027 82.078 82.195 82.122 82.135	0.527 0.503 0.486 0.474	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.40-3.87E 00-3.87E 00 86.70-3.12E 00-3.12E 00 86.80-2.89E 00-2.39E 00	82.027 82.078 82.105 82.122 82.135 82.146	0.527 9.503 0.486 0.474 0.463 9.453	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.87E 00 86.70-3.12E 00-3.12E 00 86.80-2.89E 00-2.39E 00 86.90-3.16E 00-3.16E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157	0.527 0.503 0.486 0.474 0.463 0.453	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 10-3.12E 00 86.80-2.89E 00-2.39E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.32E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171	0.527 0.503 0.486 0.474 0.463 0.453 0.443	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 10-3.12E 00 86.80-2.89E 00-2.39E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.32E 00 87.10-5.62E 00-5.54E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 10-3.12E 00 86.80-2.89E 00-2.89E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 10-3.12E 00 86.80-2.89E 00-2.89E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.89E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 10-3.12E 00 86.80-2.89E 00-2.39E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-1.28E 01	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 00-3.12E 00 86.80-2.89E 00-2.39E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.32E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.50-1.26E 01-1.28E 01 87.60-6.79E 00-6.93E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.70-3.12E 00-3.12E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.171 82.229 82.343 83.868 85.054 85.155 85.190	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.87E 00 86.70-3.12E 70-3.12E 70 86.80-2.89E 70-2.39E 00 86.90-3.16E 70-3.16E 90 87.00-4.01E 70-4.32E 00 87.10-5.62E 70-5.54E 00 87.20-8.44E 70-8.49E 00 87.30-1.39E 71-1.41E 01 87.40-2.65E 71-3.49E 01 87.50-1.26E 71-3.49E 01 87.50-1.26E 71-1.28E 91 87.60-6.79E 70-6.83E 00 87.70-3.42E 70-3.43E 00 87.80-1.21E 70-1.21E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.171 82.229 82.343 83.868 85.054 85.155 85.190 85.238	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.716	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.37E 00 86.70-3.12E 70-3.12E 70 86.80-2.89E 70-2.39E 00 86.90-3.16E 70-3.16E 90 87.00-4.01E 70-4.02E 00 87.10-5.62E 70-5.54E 00 87.20-8.44E 70-8.49E 00 87.30-1.39E 71-1.41E 01 87.40-2.65E 71-3.49E 01 87.50-1.26E 71-3.49E 01 87.50-1.26E 71-1.28E 91 87.60-6.79E 70-6.83E 00 87.70-3.42E 70-3.43E 00 87.80-1.21E 70-1.21E 00 87.90 2.81E-71 2.87E-01	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.171 82.229 82.343 83.868 85.054 85.155 85.190 85.238	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.716 -2.724	
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86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.87E 00 86.70-3.12E 70-3.12E 70 86.80-2.89E 70-2.39E 00 86.90-3.16E 70-3.16E 00 87.00-4.01E 70-4.02E 00 87.10-5.62E 70-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 71-1.41E 01 87.40-2.65E 71-3.49E 01 87.50-1.26E 71-1.28E 01 87.60-6.79E 70-6.93E 00 87.70-3.42E 70-3.43E 00 87.70-3.42E 70-3.43E 00 87.70-3.42E 70-3.43E 00 87.70-3.42E 70-1.21E 00 87.90 2.81E-71 2.87E-01 88.00 1.21E 70-1.21E 00 88.10 1.64E 70 1.54E 70 88.20 1.57E 00 1.57E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155 85.190 85.238 85.219 85.227 85.234 85.240	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.689 -2.706 -2.716 -2.724 -2.731 -2.737 -2.743	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.99E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.90E-01 88.00 1.21E 00 1.54E 00 88.10 1.64E 00 1.54E 00 88.20 1.57E 00 1.57E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155 85.219 85.219 85.227 85.227 85.240 85.240	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.689 -2.706 -2.716 -2.724 -2.731 -2.737 -2.743 -2.749	
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86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.99E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.50-1.26E 01-1.28E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.90E-01 88.00 1.21E 00 1.54E 00 88.20 1.57E 00 1.57E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.219 85.219 85.219 85.227 85.234 85.240 85.258 85.277	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.716 -2.724 -2.731 -2.737 -2.749 -2.756 -2.765	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.99E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.90E-01 88.00 1.21E 00 1.54E 00 88.20 1.57E 00 1.57E 00 88.30 9.48E-01 9.46E-01	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155 85.219 85.219 85.219 85.227 85.227 85.227 85.240 85.258	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.716 -2.724 -2.731 -2.737 -2.749 -2.756	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.99E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.80E-01 88.00 1.21E 00 1.21E 00 88.10 1.64E 00 1.54E 00 88.20 1.57E 00 1.57E 00 88.30 9.48E-01 9.46E-01 88.40-4.16E-61-4.21E-01 88.50-2.96E 00-2.98E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.219 85.219 85.219 85.227 85.234 85.240 85.258 85.277	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.716 -2.724 -2.731 -2.737 -2.749 -2.756 -2.765	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.80-2.89E 00-2.99E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.39E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.80E-01 88.00 1.21E 00 1.21E 00 88.10 1.64E 00 1.54E 00 88.20 1.57E 00 1.57E 00 88.30 9.48E-01 9.46E-01 88.40-4.16E-61-4.21E-01 88.50-2.96E 00-2.98E 00 88.60-8.16E 00-5.22E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155 85.219 85.219 85.227 85.234 85.240 85.240 85.258 85.277 85.333	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.731 -2.731 -2.737 -2.743 -2.749 -2.756 -2.765 -2.765 -2.765	
86.30-1.04E 01-1.04E 01 86.40-7.21E 00-7.23E 00 86.50-5.17E 00-5.18E 00 86.60-3.87E 00-3.97E 00 86.60-3.12E 00-3.12E 00 86.70-3.12E 00-3.12E 00 86.90-3.16E 00-3.16E 00 87.00-4.01E 00-4.02E 00 87.10-5.62E 00-5.54E 00 87.20-8.44E 00-8.49E 00 87.30-1.37E 01-1.41E 01 87.40-2.65E 01-3.49E 01 87.50-1.26E 01-3.49E 01 87.60-6.79E 00-6.93E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-3.43E 00 87.70-3.42E 00-1.21E 00 87.90 2.81E-01 2.80E-01 88.00 1.21E 00 1.21E 00 88.10 1.64E 00 1.54E 00 88.30 9.48E-01 9.46E-01 88.30 9.48E-01 9.46E-01 88.40-4.16E-61-4.21E-01 88.50-2.96E 00-2.98E 00 88.60-8.16E 00-8.22E 00	82.027 82.078 82.105 82.122 82.135 82.146 82.157 82.171 82.191 82.229 82.343 83.868 85.054 85.155 85.219 85.219 85.227 85.240 85.240 85.240 85.258 85.277 85.333 86.941	0.527 0.503 0.486 0.474 0.463 0.453 0.443 0.432 0.419 0.401 0.356 -1.652 -2.650 -2.689 -2.706 -2.731 -2.731 -2.731 -2.731 -2.737 -2.749 -2.756 -2.765 -2.765 -2.765 -2.765 -2.765 -2.765	

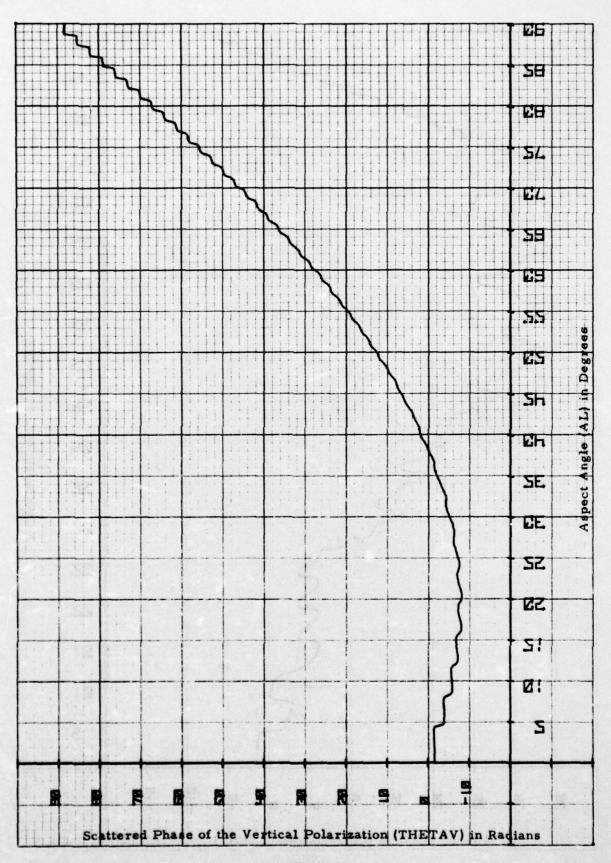
89.00	3.74E	00	3.745	90	88.329	-5.889
			6.525		88.341	-5.890
			8.54E		88.344	-5.895
-			1.03E		88.346	-5.899
89.40	1.16E	01	1.16E	U1	88.347	-5.902
89.50	1.27E	01	1.275	01	88.348	-5.905
89.60	1.35E	01	1.35E	71	83.349	-5.907
89.70	1.42E	01	1.42E	U1	88.349	-5.908
89.80	1.46E	01	1.46E	01	88.349	-5.909
89.90	1.48E	31	1.48E	01	88.349	-5.909
90.00	1.49E	01	1.49E	01	88.349	-5.910

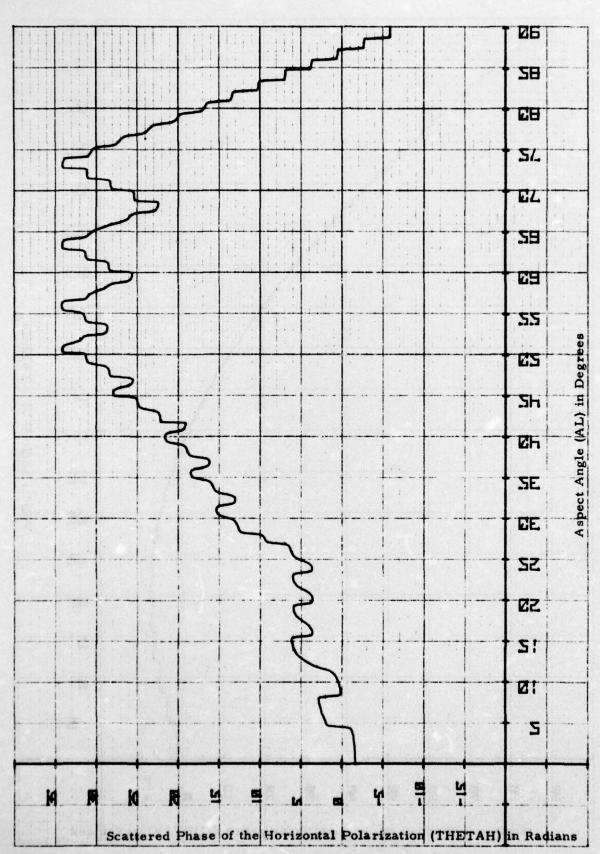
Plots from the Sample Output

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## E. CYLINDER-FLARE Program

## 1. Introduction

The CYLINDER-FLARE Program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the program GDT04 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

#### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the CYLINDER-FLARE program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular cylinder.

# 3. Computer Program Operating Environment

- a. Computer
  - HIS-6000
- b. Source Language
  FORTRAN Y under GCOS
- c. Memory Requirement
  25K words
- d. Typical Processing Time Required

  0.0123 hours (44.28 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07,08,09, 10)

## f. Subroutines Used

UPDAT

BESS

GAM

PLTGDT

SPLN46

TAN

#### 4. Inputs

The inputs which are needed for the executing of the CYLINDER-FLARE program are as follows:

Al - Smaller radius of frustum (inches)

A2 - Larger radius of frustum (inches)

H1 - Full height of frustum (inches)

H2 - Full height of cylinder (inches)

CLAM - Wave length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

BET - Azimuth bistatic angle (degrees)

#### Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

variable 1 name = (value),
variable 2 name = (value),
.
.
variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the angle at which the target is viewed (BISTATIC),
- o vary the size of the cylinder,
- o vary the size of the frustum.

## 5. Output

Output from the CYLINDER-FLARE program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is,

file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH. The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

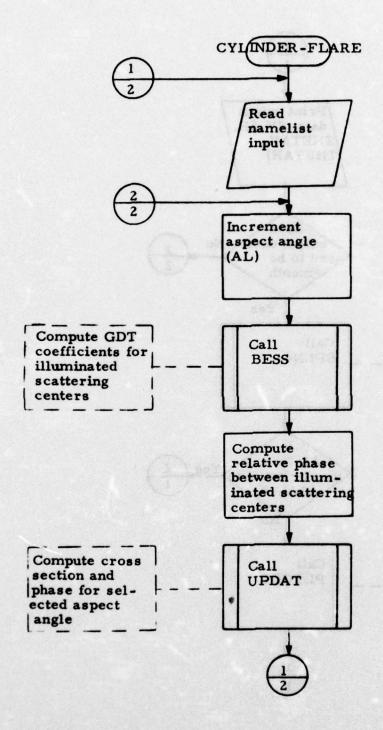


Figure IV-4 Logic Flow Diagram for CYLINDER-FLARE Program
(Page 1 of 2)
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and the second second second second

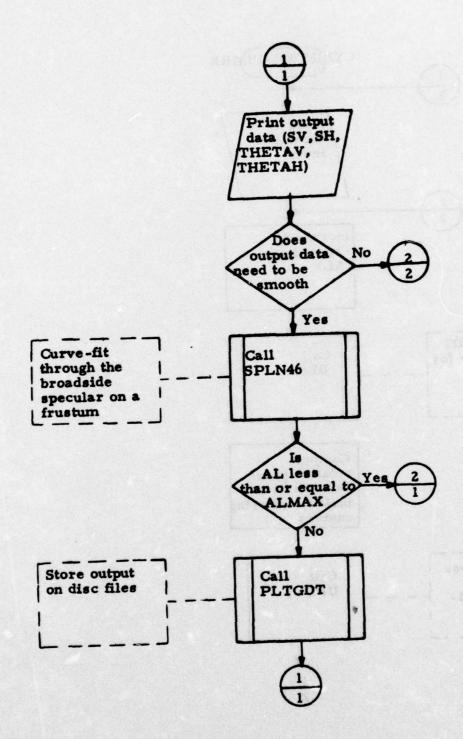


Figure IV-4 Logic Flow Diagram for the CYLINDER-FLARE Program (Page 2 of 2)

```
5
       IDENT
                CLEARY, NEUFFER , 65121104RADC
$
       USERID CLEARY STHREE
       LOYLOAD
$
$
       OPTION FORTRAN
5
       SELECT CLEARY/OCYFL
$
       SELECT CLEARY/0XSA
5
       SELECT
               CLEARY / ØXSB
$
       EXECUTE
$
       LIMITS
               05,25K,,10K
5
       PRMFL
                07. W. L. CLEARY/STORE!
5
       PRMFL
                08. W. L. CLEARY/STØRE2
       PRMFL
5
               09. W. L. CLEARY/STORES
               10. W. L. CLEARY / STORE4
5
       PRMFL
       DATA
               05
SINPUT
 A1=2.446,
 A2=3.16.
 H1=3.0,
 H2=4.063,
 CLAM=1.9509,
 DELAL=0.1.
 ALMIN=0.0.
 ALMAX=180.0.
 AL=0.0,
 BET=30.0 $
       ENDJOB
```

Sample Job Stream for the CYLINDER-FLARE Program

	ADC 6	35/645	BATCH	1 10	0		
	ER	Harris	DATE TIME				
			9/9/75 1000				
PROGRAMME	R		TELEPH				
	SMITH			3			
RADC ENGIN		5233			SYMBOL		
CLEA	RY		x476	5	OCSA		
	TA	PES AS	SIGNED				
REEL NO.	WRITE	READ	DEN.		TITLE		
NONE	0.4.50						
					190		
				_			
			-	_			
			$\vdash$	_			
PERIPHERAL READER			DRUM	OF L	PUNCH		
CORE SIZE	251	<	ACTIVIT	IES	1		
PROCESSOR		05	ESTIMAT	ED	LINES OF		
TOTAL RUN		05	PRINT	10	K		
WO 05 51			PECTED	-			
NO. OF BINA		NON	NO. OF C	OME	DECKS		
	MC	7-	TAPE [	]pu	MP COPY		
FROMI	101		MODE BCD BINA	RY	NO. OF FILE		
- SI	PECIAL C	PERAT	OR INST		TIONS		
			17				
			1111				
			Use tever	** *!	de II required)		

RADC FORM 0-56 PREVIOUS EDITION WILL BE USED

HIS-6000 Batch Submittal Form

Source Listing of the CYLINDER-FLARE Program

II. (VIII.) EV. (VIII. POR PORT OF THE CONTROL OF T

```
PROGRAM CYLINDER FLARE (SCYFL)
                                                                                                                                                                                                                                        00001000
                                                                                                                                                                                                                                        00001010
                 COMMON/WAM/YY1(2600).YY2(2000).YY3(2000).YY4(2000).XX(2000),II
COMPLEX EJR1.EJR2,EJR3,EJR4,EJR5.EJR6,EJR7,EJR8,RMSV,RMSH,
                                                                                                                                                                                                                                        00001020
                                                                                                                                                                                                                                         00001030
              X RMSV.RMSH.ZV.IVE.ZH.ZHC.SSV.SSH.EJPR.EJRNB,RMSBV,RMSBH,EJR9
REAL B1(9).B2(9).B3(9).BX(9).B1(9).CY(9).B4(9).B5(9),B6(9),
X B7(9).B6(9).B9(9).B10(9).B11(9).B12(9).DY(9).EY(9)
FAHELIST/INPUT/A1.A2.H1.H2.CLAM.DELAL.ALHIN,RLHAX.AL.BET
                                                                                                                                                                                                                                        00001040
                                                                                                                                                                                                                                        00001050
                                                                                                                                                                                                                                         00001060
#AMELIST/INPUT/A1, A2, H1, H2, CLAM, DELAL, ALMIN, ALMAX, AL, BET

1001 FORMAT(1H, 7E15.8)

2000 FORMAT(1H1, ////49x, 'INPUTS - CYLINDER FLARE',

*///29x, 'SMALLER RADIUS OF FRUSTUM (A1) = ',F14.7,

*///29x, 'LARGER RADIUS OF FRUSTUM (A2) = ',F14.7,

*///29x, 'FULL MEIGHT OF FRUSTUM (H1) = ',F14.7,

*///29x, 'FULL MEIGHT OF CYLINDER (H2) = ',F14.7,

*///29x, 'MAVE LENGTH (CLAM) = ',F14.7,

*///29x, 'INCREMENT IN ASPECT ANGLE IN DEGREES (ALMIN) = ',F14.7,

*///29x, 'MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = ',F14.7,

*///29x, 'MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = ',F14.7,

*///29x, 'ASPECT ANGLE IN DEGREES (AL) = ',F14.7,

*///29x, 'BISTATIC ANGLE IN DEGREES (BET) = ',F14.7,

*///29x
                                                                                                                                                                                                                                        00001070
                                                                                                                                                                                                                                         00001080
                                                                                                                                                                                                                                         00001090
                                                                                                                                                                                                                                        00001100
                                                                                                                                                                                                                                        00001110
                                                                                                                                                                                                                                        00001120
                                                                                                                                                                                                                                        00001130
                                                                                                                                                                                                                                         00001140
                                                                                                                                                                                                                                        00001150
                                                                                                                                                                                                                                        00001160
                                                                                                                                                                                                                                        00001170
                                                                                                                                                                                                                                        00001180
                                                                                                                                                                                                                                        00001190
                                                                                                                                                                                                                                        00001200
                                                                                                                                                                                                                                        00001210
                                                                                                                                                                                                                                         00001220
                                                                                                                                                                                                                                        00001230
               READ(05, INPUT, END=999)
WRITE(06, 2000) A1, A2, H12/2, CLAM, DELAL, ALMIN, ALHAY, AL, BET
                                                                                                                                                                                                                                         00001240
                                                                                                                                                                                                                                        00001250
                                                                                                                                                                                                                                        00001260
                  II = 0
                 THETA = 0.
                                                                                                                                                                                                                                        00001270
                  BHY2 = 0,
                                                                                                                                                                                                                                        00001280
                  1HH2 - 0.
                                                                                                                                                                                                                                        00001290
                  BELC1 = .0254*.0254
FI = 3.14159265
                                                                                                                                                                                                                                        00001300
                                                                                                                                                                                                                                        00001310
                                                                                                                                                                                                                                        00001320
                  A2A1 =(A2 -A1)/(H1 + H2)
                  A1A2 =(A2 - A1+/H2
                                                                                                                                                                                                                                        00001330
                                                                                                                                                                                                                                        00001340
                 XS-ATAN(A2A15
                                                                                                                                                                                                                                        00001350
                  RP=ATAN(A1A2)
                                                                                                                                                                                                                                        00001360
                  DTR - PI/180.
                  RTD = 180./PI
                                                                                                                                                                                                                                        00001370
                 DELAL - DELAL*DIR
                                                                                                                                                                                                                                        00001380
                  ALMIN - ALMIN DIR
                                                                                                                                                                                                                                        00001390
                                                                                                                                                                                                                                        00001400
                  ALMAX = ALMAX*DTR
                                                                                                                                                                                                                                        00001410
                  AL = AL*DTR
                  BET - BET*DTR
                                                                                                                                                                                                                                        00001420
                 HBET = BET/2.
CK = 2. PI COS(HBET)/CLAM
                                                                                                                                                                                                                                        00001430
                                                                                                                                                                                                                                        00001440
                 ALO - AL
CH1 - 3./2.
                                                                                                                                                                                                                                        00001450
                                                                                                                                                                                                                                        00001460
                                                                                                                                                                                                                                        00001470
                  C#2 = 1.-X7/PI
                                                                                                                                                                                                                                        00001480
                  CH3 = 3./2.+XF/PT
                                                                                                                                                                                                                                        00001490
                 C1 = FI
                 C2 = $1/2.
                                                                                                                                                                                                                                        00001500
                  C3 = PI/4.
                                                                                                                                                                                                                                        00001510
```

```
C4 = 2. . CK . A1
                                                                                              00001520
                                                                                              00001530
       C6 = 2'.*CK*H1
C7 = 2'.*CK*H2
CAMSC = 2,44280764*COS(HBET)
                                                                                              00001540
                                                                                              00001550
                                                                                              00001560
        CHSBC = 2.2548279+COS(HBET)
                                                                                              00001570
        CAL1 = XS-HBET
                                                                                             00001580
        CAL2 - C2-HBET
                                                                                              00001590
       CAL3 = C2+HBET
                                                                                              00001600
       CAL4 = C1-XF-HBET
                                                                                              00001610
       CALS = C1-XS-HBET
CAL6 = XS+HBET
                                                                                              00001620
                                                                                              00001630
       cs = cos(c1/cN1)
c_9 = sin(c1/cN1)
                                                                                              00001640
                                                                                              00001650
       C10 - COS(C1/CN2)
                                                                                              00001660
       C11 = SIN(C1/CN2f
                                                                                              00001670
                                                                                             00001680
       C12 = COS(C1/CN3T
       C13 = SIN(C1/CN3)
                                                                                              00001600
       C20 = 1./(C8-COS(BET/CN1))
C21 = 1./(C10-COS(BET/CN2))
                                                                                              00001700
                                                                                              00001710
       22 = 1./(c12-c04(BET/cN31)

XXL = (H2)/(c08(XF))
                                                                                             00001720
                                                                                             00001730
       ARGARS = (CLAM)/(2. *XXL*COS(BET/2.))

HLOBEW = ARSIN(ARGARS)

ALINCY = HLOBEW*[1.2/7.8)

ALINCH = HLOBEW*[1.8/7.5)
                                                                                             00001740
                                                                                              00001750
                                                                                              00001760
                                                                                              00001770
     ALSTOP = C2-XF+ALINCP+.3*DTR
ALBEGN = C2-XF-ALINCM-.3*DTR
                                                                                             00001780
                                                                                             00001790
       CBROAD = ((8.*PI*COS(BET/2.))/(g.*CLAM*COS(XF)*(SIN(XF)**2)))
                                                                                             00001800
      x *((A2**1.5-A1**1.5}**2)
                                                                                             00001810
       CELS1 = CBROAD+RELC1
CELS2 = 10. ALOG1 (CELS1)
                                                                                             00001820
                                                                                             00001830
                                                                                             00001840
       CPLOT1 = CELS2
       CPLOT2 = CELS2
                                                                                             00001850
C
                                                                                              00001860
                                                                                             00001870
C
       ATESTL = 0.05*DTR
                                                                                             00001880
                                                                                             00001890
                                                                                        00001900
    60 TO 95
   IT = II+1

IF (ABS(AL-ALBEGN).LE.ATESTL) ALBEGN = AL

IF (ABS(AL-ALBEGN).LE.ATESTL) II1 = II

IF (ABS(AL-ALSTOP).LE.ATESTL) ALSTOP = AL

IF (ABS(AL-ALSTOP).LE.ATESTL) II2 = II
                                                                                        00001910
                                                                                             00001920
                                                                                    00001920
                                                                                            00001940
                                                                                             00001950
  C14 = C4*SIN(AL)
                                                                                             00001960
  C15 - C5+SIN(AL)
                                                                                             00001970
   C16 - C6*COS(AL)
                                                                                              00001980
   C17 = C7*COS(AL)
                                                                                             00001990
   C70 = SQRT(C16++2)/2.
                                                                                             00002000
                                                                                             00002010
  RH2 = C3-C14
                                                                                             00002020
                                                                                             00002030
       RH3 = C3-C15+C17
```

# 8072T 01 09-29-75 16.384

2H8 = +C3+C14-C18	00002040
INS - C1	00002050
886C3+C15+C19	00002060
1K7 - +C17	00002070
RN8 = -C2-C16	00002080
149C2+C17	00002090
CSRH1 = COS(RH1)	00002100
SURH! - SIN(RH!)	00002110
CSRH2 = COS(RH2)	00002120
SURH2 = SIN(RH2)	00002130
CSRH3 = COS(RH3)	00002140
BURH3 = SIN(RH3)	00002150
CSRH4 = COS(RH4)	00002160
BRANG = SIN(RHG)	00002170
CSRH5 = COS(RH5)	00002180
Burns - Sin(RHS)	00002190
CSRH6 = COS(RH6)	00002200
\$NRH6 = SIN(RH6)	00002210
CSRH7 = COS(RH7)	00002220
SURKY = SIN(RH7)	00002230
csrue = cos(RH8)	00002240
Burna - Sin(RHa)	00002250
ESRHO - COS(RHO)	00002260
Furng = Sin(RHg)	00002270
BJR1 = CMPLX(CSRH1,SNRH1)	00002280
BJR2 = CMPLX(CSRN2.SNRH2)	00002290
BJR3 = CMPLX(C6RH3.SNRH3)	00002300
BJR4 - CMPLX(CSRH4.SNRH4)	00002310
MJR5 = CMPLX(C6RH5.SWRH5)	00002320
BJR6 = CMPLX(CBRN6.SWRH6)	00002330
EJR7 = CMPLX(C6RH7.SNRH7)	00002340
EJRS - CHPLX(CBRUS.SWRHS)	00002350
BJRg = CMPLX(C6RHg.SNRHg)	00002360
BHPR = C16/2.	00002370
CSPR - COS(RHPR)	00002380
SHPR - SIN(RHPR)	00002390
BJPR = CMPLX(CSPR, SMPR)	00002400
WHB = C2+C3-C14-616/2.	00002410
CSRHB = COS(RHB)	00002420
SNRHB = SIN(RHB)	00002430
BJRHB = CMPLX(CSRHB, SWRHB)	00002440
IF (C70. GE. CNSBC) GO TO 11	00002450
C18 = SQRT(A1/(CK*SIN(AL)))	00002460
Cig = SQRT(A2/(CK+SIN(AL)))	00002470
C25 = 1./(c12-cos((3.*PI-2.*AL)/CN3))	00002480
#s3sv = (c13/c#31*c19*(c25-c22)	00002490
RS3SH = (c13/cH3f*c19*(c25+c22)	00002500
26 = 1.7(c8-cost(P1-2. ALI/cn1))	00002510
Rsusy = (c9/cN1)*c18*(c264c20)	00002520
RS4SH = (c9/cH1)+c18*(c26+c20)	00002530
IP(AL, LT, CAL2) GO TO 25	00002540
RS45V = 0.	00002550

```
RSUSH = 0.
                                                                                      00002560
25 CONTINUE
                                                                                       00002570
   c27 = 1./(c12-c08((PI-2.*,L)/cN3))
RS6SV = (c13/cN3)*c19*(c27-c22)
                                                                                       00002580
                                                                                      00002590
   RS6SH = (c13/cN35+c19+(c27+c22)
IF(AL. GT. CAL3) GO TO 30
                                                                                     00002600
                                                                                      00002610
   1565V = 0.
                                                                                       00002620
   RS6SH = 0.
                                                                                       00002630
30 CONTINUE
                                                                                       00002640
    SNXOX = 1.
                                                                                      00002650
                                                                                      00002660
   IF(AL. EQ. C2) GO TO 72
   SNXOX = SIN(C16/2.)/(C16/2.)
                                                                                  00002670
                                                                                 00002680
72 RMSBV = -c_{18*c_{K*H}1*SNXOX*EJRHB*(c_{9}/c_{N1})*c_{18*c_{20*EJR1}}

x -(c_{11}/c_{N2})*c_{18*c_{21*EJR2}}
                                                                                  00002690
   RMSBH = -C18*CK*H1*SNXOX*EJRHB+(C9/CN1)*C18*C20*EJR1
                                                                                      00002700
   +(C11/CN2)*C18*C21*EJR2

Ev = RMSBV + RS3SV*EJR3 + RS4SV*EJR4 + RS6SV*EJR6
                                                                                      00002710
   EV = RMSBV + RS35V*EJR3 + RS45V*EJR4 + RS65V*EJR6 00002720

EN = RMSBH + RS35H*EJR3 + RS45H*EJR4 + RS65H*EJR6 00002730

GO TO 50 00002740
GO TO 50

11 IF (AL. GE. C2) GO TO 81

IF(AL. GT. CAL1) GO TO 61

C28 = 1./(C12-C05(3.*PI/CN3))
                                                                                      00002750
                                                                                      00002760
                                                                                   00002770
   C29 = 1./(c12-c05(BET/CN3))
                                                                                   00002780
   C30 = SIN(3.*PI/EN3)
                                                                                    00002790
                                                                                      00002800
    C31 = (A2*C13) Z(CN3*SQRT(PI))
    ORDER = 0.
                                                                                       00002810
                                                                                       00002820
   CALL BESS (ORDER, C15. BS)
                                                                                       00002830
   C32 = BS
                                                                                       00002840
   ORDER = 1
                                                                                       00002850
   CALL BESS (ORDER, C15. BS)
   C33 = 85
ORDER = 2.
                                                                                       00002860
                                                                                       00002870
   CALL BESS (ORDER, C15. BS)
                                                                                       00002880
   C34 = BS
C35 = C31*(2.*PI)*C28*C32
C36 = C31*C30*(2./CN3)*C28*C33*TAN(AL)
                                                                                       00002890
                                                                                      00002900
                                                                                      00002910
   C37 = -C31+(2.*PI)+C29+C34

RWSV = (C35-C36+EJR5-C37)+EJR7

RWSH = (C35-C36+EJR5+C37)+EJR7
                                                                                       00002920
                                                                                      00002930
                                                          00002930
                                                                                  00002950
   GO TO 62
61 RNSV = 0.
                                                           00002960
00002970
00002980
00002990
                                                                       00002960
    RNSH = 0.
62 IF(C14. LT. CANSC) GO TO 12

C38 = SQRT(A1/(CK*SIN(AL)))

C39 = 1./(C8-COS((PI+2.*AL)/CN1))
                                                                                   00003000
                                                                                   00003010
   C40 = 1./(c8-cos((PI-2.*AL)/CN1))
                                                     00003020
00003030
00003040
                                                                                       00003020
    #s1sV = (c9/cN1)+c38+(c39-c20)
    RS1SH = (c9/cN1) +c38+(c39+c20)
   RS4SV = (C9/CN1) *C38*(C40-C20)
RS4SH = (C9/CN1) *C38*(C40+C20)
IF (AL. LT. CAL2) 30 TO 63
                                                                                   00003050
                                                       00003060
   RS45V = 0.
```

```
00003080
RS4SH = 0.
63 CONTINUE
                                                                                             20003033
   C41 = 1./(C10-COS(2.*AL/CN2))
B52SV = (C11/CN25*C38*(C41-C21)
R52SH = (C11/CN25*C38*(C41+C21)
IF(AL. GT. HBET) GO TO 13
                                                                                             00003100
                                                                                             00003110
                                                                                             00003120
                                                                                             00003130
    RS25V = 0.
                                                                                            00003140
                                                                                            00003150
    $525H = 0.
                                                                                             00003160
13 CONTINUE
    c_{19} = SQRT(_{\lambda}2/(_{C}R^{*}SIN(_{\lambda}L)))
c_{25} = 1./(_{c_{12}-c_{03}}((3.*PI-2.*_{\lambda}L)/cN3))
RS3SV = (c_{13}/c_{13})^{*}c_{19}^{*}(c_{25}-c_{22})
                                                                                             00003170
                                                                                            00003180
                                                                                            00003190
    1535H = (c13/cN31+c19+(c25+c22)
                                                                                            00003200
                                                                                           00003220
    $535Y = 0.
                                                                                           00003230
    $535H = 0.
                                                                                            00003240
91 CONTINUE
    EV = RS1SV*EJR1+RS2SV*EJR2+RS4SV*EJR4+RS3SV*EJR3
EH = RS1SH*EJR1+RS2SH*EJR2+RS4SH*EJR4+RS3SH*EJR3
                                                                                            00003250
                                                                                            00003260
                                                                                            00003270
    GO TO 50
12 C42 = C4+A1+SORT[PI]

C43 = (C9/CN1)+SORT(A1/CK)

CCA152 = CK+A1
                                                                                            00003280
                                                                                            00003290
                                                                                             00003300
    IF (AL. EQ. 0.) GO TO 21
CCA1S1 = 1./SIN(AL)
                                                                                            00003310
                                                                                            00003330
    CCA15 = CCA152
                                                                                            00003340
IF (CCA 152-CCA 151) 21,21,22
21 CCA 15 = CCA 152
                                                                                             00003350
                                                                                             00003360
22 CONTINUE
                                                                                            00003370
    C44 = SQRTICCA1SI
                                                                                             00003380
    ORDER = 1
                                                                                            00003390
    CALL BESS (ORDER, C14. BS)
                                                                                           00003400
    C45 - B5
    CBX0X1 = 0.5
                                                                                            00003410
                                                                                            00003420
    IF (AL'. EQ'. 0.) GO TO 23
    CBXOX1 = C45/C14
                                                                                            00003440
23 CONTINUE
    RHSV = C42*C3X0X1*EJR8-C43*C44*C20*(FJR1+EJR4)
                                                                                            00003450
    RHSH = C42*CBXOX1*EJR8+C43*C44*C20*(EJR1+EJR4)
                                                                                             00003450
                                                                                             00003470
    C46 = 1./(C10-COS(2.*AL/CH2))
    C47 = (C11/CN2) *SQRT(A1/CK)
                                                                                             00003490
    RS25V = C47*C44*1C46-C21)
                                                                                            00003500
    RS2SH = C47*C44*[C46*C21)
IF (AL. GT. HBETT GO TO 24
                                                                                            00003510
                                                                                            00003520
    RS25V = 0.
                                                                                            00003530
    RS25H = 0.
24 CONTINUE
    EV = RMSV + RNSV + RS2SV*EJR2

TH = RMSH + RNSH + RS2SH*EJR2
                                                                                            00003550
                                                                                             00003560
                                                                                             00003570
    60 TO 50
                                                                                             00003580
81 IF(C15. LE. CANSC) GO TO 32
                                                                                            00003590
    C18 = SQRT(A1/(CK*SIN(AL)))
```

```
C19 = SQRT(A2/(CK+SIN(AL)))

C23 = 1./(c8-cos ((PI+2.*AL)/cN1))

RS1SV = (c9/cN1)*c18*(c23-c20)

RS1SH = (c9/cN1)*c18*(c23+c20)

IP(AL.IT.cALS) GB TO .5 = 0

RS1SV = 0.
                                                                                                                                                                                                                                                                                                 00003600
                                                                                                                                                                                                                                                                                                 00003610
                                                                                                                                                                                                                                                                                               00003620
                                                                                                                                                                                                                                                                                               00003630
                                                                                                                                                                                                                                                                                     00003640
                                                                                                                                                                                                                                                                                              00003650
             151SH = 0.
                                                                                                                                                                                                                                                                                             00003660
                                                                                                                                                                                                                                                                00003670
 15 CONTINUE
             C24 = 1./(c10-cos(2.*AL/CN2))
R525V = (C11/CN2)**C18**(C24-C21)
                                                                                                                                                                                                                                                                                             00003680
                                                                                                                                                                                                                                                                                              00003690
             RS2SH = (C11/CN2f+C18#(C24+C21)
IF(AL. LT. CAL4) GO TO 20
                                                                                                                                                                                                                                                                                     00003700
                                                                                                                                                                                                                                                                                          00003710
             1525V = 0.
                                                                                                                                                                                                                                                                                          00003720
           RS2SH = 0.
                                                                                                                                                                                                                                                                                       00003730
                                                                                                                                                                                                                                                                                        00003740
 20 CONTINUE
           CONTINUE

c25 = 1./(c12-c08((3.*PI-2.*AL)/cN3))

RS3SV = (c13/cN3f*c19*(c25-c22)

RS3SH = (c13/cN3f*c19*(c25+c22)

c27 = 1./(c12-c08((PI-2.**L)/cN3))

RS6SV = (c13/cN3f*c19*(c27-c22)

RS6SH = (c13/cN3f*c19*(c27+c22)

TR6.L GT c4L3) GO TO 82
                                                                                                                                                                                                                                                                00003750
00003760
                                                                                                                                                                                                                                                                00003770
                                                                                                                                                                                                                                                                                          00003790
                                                                                                                                                                                                                                                                                  00003800
             IF(AL'. GT. CALS) GO TO 82
                                                                                                                                                                                                                                                                                              00003810
                                                                                                                                                                                                                                                                               00003820
             2565Y = 0.
             $565H = 0.
                                                                                                                                                                                                                                                                                             00003830
82 CONTINUE

ZV = RS1SV*EJR1+RS2SV*EJR2+RS3SV*EJR3 +RS6SV*EJR6

ZH = RS1SH*EJR1+RS2SH*EJR2+RS3SH*EJR3 +RS6SH*EJR6
                                                                                                                                                                                                                                                                                           00003840
                                                                                                                                                                                                                                                                                            00003850
                                                                                                                                                                                                                                                                                        00003860
                                                                                                                                                                                                                                                                                    00003870
             GO TO 50
32 C48 = C5*A2*SQRT[PI]
C49 = (C13/CN3)*SQRT(A2/CK)
                                                                                                                                                                                                                                                                                             00003880
                                                                                                                                                                                                                                                                                                00003890
            CCA2S2 = CK*A2
TP (AL.EQ.C1) GO TO 41
                                                                                                                                                                                                                                                                                                00003900
                                                                                                                                                                                                                                                                                                00003910
             CCA251 = 1./SIN(AL)
                                                                                                                                                                                                                                                                                                00003320
                                                                                                                                                                                                                                                                                                00003930
             CCA25 - CCA251
             IF (CCA252-CCA251) 41,41,42
                                                                                                                                                                                                                                                                                                00003940
 41 CCA25 = CCA252
                                                                                                                                                                                                                                                                                              00003950
                                                                                                                                                                                                                                                                                                00003960
42 CONTINUE
             CSO - SORTICCAZST
                                                                                                                                                                                                                                                                                               20003970
                                                                                                                                                                                                                                                                                               00003980
             ORDER = 1.
             CALL BESS (ORDER, C15, BS)
                                                                                                                                                                                                                                                                                                00003990
             C51 = BS
             CBX0X2 = 0.5
                                                                                                                                                                                                                                                                                               00004010
             IF (AL. EQ. C1) GO TO 43
CBXOX2 = C51/C15
                                                                                                                                                                                                                                                                                               00004020
                                                                                                                                                                                                                                                                                               00004030
43 CONTINUE
                                                                                                                                                                                                                                                                                             00004040
            EV = C^{48} + C_{B} \times C_{X} \times C_{E} \times C_{B} 
                                                                                                                                                                                                                                                                                              00004060
                                                                                                                                                                                                                                                                                               00004070
             GO TO 50
                                                                                                                                                                                                                                                                                               00004080
50 ZV = ZV*EJPR
             ZH = ZH FJPR
                                                                                                                                                                                                                                                                                               00004090
                                                                                                                                                                                                                                                                                                00004100
             ZVC = CONJG(ZV)
                                                                                                                                                                                                                    00004110
             SSV = ZV*ZVC
```

```
8072T 01 09-29-75 16.384
                                                                                     00004120
                                                    00004140
00004150
00004160
00004170
       ZHC = CONJG(ZH)
       SSH - ZH+ZHC
       REALSV = REAL(SSV)
       REALSH = REAL(SSH)
       RELSV1 = REALSV-RELC1
       RELSV2 = 10. ALOG1 (RELSV1)
                                                                                     00004170
      RgLSV2 = 10. ALOG1 (RgLSV1)

RgLSH1 = RgALSH RELC1 00004186

RgLSH2 = 10. ALOG1 (ReLSH1) 00004196

RHV1=ATAN2(AIMAGŽZV) REALŽZV)) 00004200

CALL UPDAT(RHV1, RHV2, PI, THETAV) 00004210

RHH1=ATAN2(AIMAGŽZH), RgALŽZH)) 00004226

CALL UPDAT(RHH1, RHH2, PI, THETAH) 00004230

AL = RTD*AL 00004240
      00004250
                                                                                      00004260
                                                                                     00004270
                                                                              00004283
                                                       0.) 00004290
00004300
00004310
                                                               00004310
00004320
      YY2(II) = RELSH2
YY3(II) = THETAV
       TY4(II) = THETAH
                                                                                     00004330
       XX(II) = AL
AL = DTR-AL
                                                                                      00004340
                                                                                     00004350
       IF (ABS(AL-ALSTOP).GT.ATESTL) GO TO 300
                                                                                     00004360
                                                                                     00004370
       Ic = II1
       CC1 = ALBEGN
                                                                                     00004380
       NP = 9
                                                                                     00004390
       IC2 = II2-3
CC2 = ALSTOP-3.+ALUP
                                                                                     20004420
                                                                                     00004410
       DO 301 I = 1.4
BX(I) = CC1*RTD
                                                                                     00004420
                                                                                     00004430
       BY(I)= YY1(IC)
                                                                                     00004440
       DY(I) = YY3(IC)
                                                                                     00004450
                                                                                     00004460
       EY(I) = YY4(IC)
                                                                                     00004470
                                                                                     00004485
       IC = IC+1
       CCT = ALUP+CCT
                                                                                     00004430
                                                                                     00004500
  301 CONTINUE
                                                                                     0004510
      BX(5) = (PI/2.-XF)*RTD
                                                                                     60004570
       BY(5)= CPLOT1
                                                                                     20004535
       CY(5) = CPLOT2
                                                                                      0000454
       Do 302 I = 6.9
                                                                                     00004550
       BX(I) = CC2*RTD
       BY(I)= YY1(IC2)
                                                                                     00004560
       CY(I) = YY2(IC2)
                                                                                     0.000457
       DY(I) = YY3(IC2)
                                                                                      300045R3
      EY(I) = YY4(IC2)
IC2 = IC2+1
                                                                                     00004590
                                                                                      0000460
       CC2 = CC2+ALUP
                                                                                     00004610
  302 CONTINUE
                                                                                     00004621
       DY(5) = (DY(4)+DY(6))/2.
                                                                                     2000463
```

## \$072T \$1 09-29-75 16.384

```
00004640
      $Y(5) = (EY(4)+EY(6))/2,
343 KP = ALBEGN . RTB
                                                                                                          00004650
     CALL SPLN46 (0.XP.YP.BX.BY.NP.B1.B2.B3)
CALL SPLN46 (0.XP.YP1.BX.CY.NP.B4.B5.B6)
CALL SPLN46 (0.XF.YP2.BX.DY.NP.B7.B8.B9)
CALL SPLN46 (0.XF.YP3.BX.EY.NP.B10.B11.B12)
                                                                                                          00004660
                                                                                                          00004670
                                                                                                          00004680
                                                                                                          00004690
     CCCC 1=DELAL*RTB
DO 303 I = II1.I$2
                                                                                                          00004700
                                                                                                          00004710
     CALL SPIN46 (1.XP.YP.BX.BY.NP.B1.B2.B3)
CALL SPIN46 (1.XP.YP1.BX.CY.NP.B4.B5.B6)
CALL SPIN46 (1.XP.YP2.BX.DY.NP.B7.B8.B9)
CALL SPIN46 (1.XP.YP3.BX.EY.NP.B10.B11.B12)
                                                                                                          00004720
                                                                                                          00004730
                                                                                                          00004740
                                                                                                          00004750
      XXIII = XP
                                                                                                          00004760
                                                                                                          00004770
      TYT(I) = YP
                                                                                                          00004780
      112(I) = YP1
      TY3(I) = YP2
TY4(I) = YP3
                                                                                                          00004790
                                                                                                          C000480Q
      XP = XP+CCCC1
                                                                                                          00004810
                                                                                                          00004820
303 CONTINUE
      AL = ALSTOP
                                                                                                          00004840
300 AINDX=II
                                                                                                          00004850
      AL-AINDX+DELAL +ALO
                                                                                                          00004860
      IF (AL-ALMAX) 10,1.,200
200 CALL PLTGDT
                                                                                                          00004880
      GO TO 1
                                                                                                          00004890
 95 CONTINUE
      WRITE(6, 2001)
THETAY = 0.
                                                                                                          00004900
                                                                                                          00004910
                                                                                                          00004920
     THETAH = 0.
                                                                                                          00004930
      GO TO 10
                                                                                                          00004940
999 CONTINUE
      STOP
      END
                                                                                                          00004960
```

Sample Input for the CYLINDER-FLARE Program as Output

THE STATE OF THE S

#### INPUTS - CYLINDER FLARE

SMALLER RADIUS OF FRUSTUM (A1) = 2.4460000

LARGER RADIUS OF FRUSTUM (A2) = 3,1600000

FULL HEIGHT OF FRUSTUM (H1) = 8.0000000

FULL HEIGHT OF CYLINDER (H2) = 4.0630000

WAVE LENGTH (CLAM) = 1.9509000

INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 0,1000000

MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 180.0000000

ASPECT ANGLE IN DEGREES (AL) = 0.

BISTATIC ANGLE IN DEGREES (BET) = 30.0000000

STREET STRUCTURED - DEPONE

CONTRACTOR OF PRINCIPLE CARTORS OF BUILDANGE

Concepte - A (AM) watfows as ambres 1985

TOTAL SETSHER OF CELEBRA (RE) A ... W. DOLLOWS

ACRESON PRINCES NAMED OF TAXABLE ACRESSES.

CONTROL OF THE PROPERTY OF THE

A CIA SABER IN DESERT STATE

beneral and the grander sample of trees there weren

Sample Output for the CYLINDER-FLARE Program

CHARLES OF THE REPORT FACET IN DECISE, ADMINIST TO THE PROPERTY

IV-166

0. 0-1.53E 00-1.53E 00 -1.28E 00 -1.28E -1.36E 0.20-1.33E 00-1.53E 00 -1.28E 00 -1.28E 00 -1.38E 00 -1.37E 00.58E 00 -1.38E 00 -1.37E 00.58E 00.	AL	SVIDBS	I) SHIDBEN)	THETAV	THETAH	- Service		4E5, 4000		
0.10-1.531 00-1.531 00 -1.282 -1.388   0.20-1.531 00-1.531 00 -1.280 -1.281 -1.369   0.30-1.531 00-1.531 00 -1.280 -1.280 -1.370   0.50-1.535 00-1.535 00 -1.535 00 -1.271 -1.372   0.50-1.535 00-1.535 00 -1.235 00 -1.273 -1.373   0.50-1.535 00-1.535 00 -1.274 -1.373   0.50-1.535 00-1.535 00 -1.274 -1.373   0.50-1.535 00-1.535 00 -1.274 -1.373   0.50-1.535 00-1.535 00 -1.274 -1.373   0.50-1.535 00-1.535 00 -1.274 -1.373   1.00-1.632 00-1.632 00 -1.274 -1.373   1.00-1.632 00-1.632 00 -1.263 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.635 00 -1.264 -1.374   1.00-1.632 00-1.635 00 -1.264 -1.374   1.00-1.632 00-1.635 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.374   1.00-1.632 00-1.632 00 -1.264 -1.373   1.50-1.722 00-1.723 00 -1.253 -1.373   1.50-1.722 00-1.725 00 -1.253 -1.373   1.50-1.722 00-1.725 00 -1.253 -1.374   1.00-1.832 00-1.802 00 -1.255 -1.374   1.00-1.832 00-1.802 00 -1.255 -1.374   1.00-1.832 00-1.802 00 -1.255 -1.374   1.00-1.832 00-1.802 00 -1.255 -1.374   1.00-1.832 00-1.802 00 -1.255 -1.356   2.00-1.832 00-1.802 00 -1.255 -1.356   2.00-1.832 00-1.802 00 -1.244 -1.367   2.00-1.832 00-1.802 00 -1.244 -1.367   2.00-1.832 00-1.802 00 -1.244 -1.367   2.00-1.832 00-2.322 00 -1.244 -1.367   2.00-1.832 00-2.322 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00 -1.239 -1.364   2.00-2.002 00-2.002 00										
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1,00=1,600 00=1,600 00 -1,270 -1,270 -1,374  1,10=1,631 00=1,621 00 -1,261 00 -1,266 -1,374  1,10=1,631 00=1,631 00 -1,261 00 -1,264 -1,374  1,10=1,671 00=1,671 00 -1,672 00 -1,264 -1,374  1,10=1,671 00=1,672 00 -1,672 00 -1,261 -1,373  1,50=1,691 00=1,792 00 -1,261 -1,261 -1,373  1,50=1,691 00=1,792 00 -1,261 -1,261 -1,373  1,70=1,702 00=1,702 00 -1,262 00 -1,265 -1,371  1,00=1,702 00=1,702 00 -1,262 01 -1,265 -1,371  1,00=1,802 00=1,802 00 -1,262 -1,371  2,00=1,802 00=1,802 00 -1,262 -1,371  2,00=1,802 00=1,802 00 -1,264 -1,369  2,00=1,902 00=1,902 00 -1,264 -1,369  2,00=1,902 00=1,902 00 -1,264 -1,367  2,00=1,902 00=1,902 00 -1,264 -1,367  2,00=1,902 00=1,902 00 -1,264 -1,367  2,00=2,002 00=2,002 00 -1,203 -1,364  2,00=2,002 00=2,002 00 -1,233 -1,361  2,00=2,002 00=2,002 00 -1,233 -1,361  2,00=2,172 00=2,172 00 -1,232 -1,358  3,00=2,202 00=2,202 00 -1,203 -1,356  3,00=2,202 00=2,202 00 -1,203 -1,356  3,00=2,202 00=2,302 00 -1,203 -1,356  3,00=2,202 00=2,302 00 -1,203 -1,356  3,00=2,302 00=2,302 00 -1,203 -1,356  3,00=2,302 00=2,302 00 -1,203 -1,356  3,00=2,302 00=2,302 00 -1,203 -1,356  3,00=2,302 00=2,302 00 -1,203 -1,356  3,00=2,202 00=2,302 00 -1,203 -1,356  3,00=2,302 00=2,302 00 -1,203 -1,303  4,00=2,302 00=2,302 00 -1,203 -1,304  4,00=3,302 00=3,302 00 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,304  4,00=3,002 00=3,002 00 -1,106 -1,106 -1,206  5,00=3,002 00=3,002 00 -1,106 -1,106 -1,206  5,00=3,002 00=3,002 00 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,106 -1,207  1,00=3,002 00=3,002 00 -1,106 -1,106 -1,107  1,00=3,002 00=3,002 00 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1,106 -1					+1.373					
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1. 20=1.63E 00=1.63E 00 -1.26E =1.374  1. 30=1.65E 00=1.65E 00 -1.26E =1.374  1. 40=1.67E 00=1.67E 00 -1.26E =1.374  1. 40=1.67E 00=1.67E 00 -1.26E =1.373  1. 50=1.66E 00=1.67E 00 -1.26E =1.26T =1.373  1. 50=1.66E 00=1.67E 00 -1.26E =1.26T =1.373  1. 50=1.72E 00=1.77E 00 -1.25T =1.373  1. 70=1.77E 00=1.77E 00 -1.25T =1.373  1. 90=1.80E 00=1.80E 00 -1.25T =1.371  1. 90=1.80E 00=1.80E 00 -1.25T =1.371  2. 10=1.80E 00=1.80E 00 -1.25T =1.371  2. 10=1.80E 00=1.80E 00 -1.25T =1.369  2. 20=1.80E 00=1.80E 00 -1.24E =1.366  2. 30=1.93E 00=1.93E 00 -1.24E =1.366  2. 30=1.93E 00=1.93E 00 -1.24E =1.366  2. 50=2.00E 00=2.00E 00 -1.27 =1.363  2. 50=2.00E 00=2.00E 00 -1.23T =1.363  2. 50=2.00E 00=2.00E 00 -1.23T =1.363  2. 50=2.00E 00=2.00E 00 -1.23T =1.363  2. 50=2.13E 00=2.13E 00 =1.23T =1.359  2. 90=2.17E 00=2.17E 00 =1.23T =1.356  3. 10=2.26E 00=2.26E 00 =1.22T =1.356  3. 10=2.26E 00=2.26E 00 =1.22T =1.356  3. 10=2.26E 00=2.26E 00 =1.22T =1.356  3. 20=2.31E 00=2.31E 00 =1.22T =1.356  3. 50=2.55E 00=2.55E 00 =1.21F =1.347  3. 50=2.55E 00=2.55E 00 =1.21F =1.342  3. 50=2.57E 00=2.59E 00 =1.21F =1.342  3. 50=2.57E 00=2.59E 00 =1.20F =1.337  4. 00=2.77E 00=2.77E 00 =1.20F =1.337  4. 00=2.77E 00=2.77E 00 =1.99 =1.331  4. 00=2.88E 00=2.89E 00 =1.88E =1.38E  4. 50=3.19E 00=3.19E 00 =1.180 =1.311  4. 50=3.19E 00=3.50E 00 =1.180 =1.311  4. 50=3.19E 00=3.50E 00 =1.180 =1.311  4. 50=3.19E 00=3.50E 00 =1.180 =1.180 =1.311  4. 50=3.19E 00=3.50E 00 =1.180 =1.180 =1.311  4. 50=3.19E 00=3.50E 00 =1.180 =1.180 =1.32E  5. 50=3.50E 00=3.50E 00=3.50E 00 =1.180 =1.282  5. 50=3.50E 00=3.50E 00=3.50E 00 =1.180 =1.272  5. 50=3.50E 00=3.50E 00=3.50E 00 =1.180 =1.272  5. 50=3.50E 00=3.50E										
1,30=1,65E 00=1,65E 00 = 1,264 = 1,374  1,60=1,67E 00=1,67E 00 = 1,263 = 1,373  1,50=1,69E 00=1,69E 00 = 1,261 = 1,373  1,70=1,72E 00=1,72E 00 = 1,259 = 1,373  1,70=1,72E 00=1,72E 00 = 1,259 = 1,373  1,90=1,77E 00=1,77E 00 = 1,257 = 1,372  1,90=1,80E 00=1,80E 00=1,255 = 1,371  2,00=1,80E 00=1,80E 00=1,253 = 1,371  2,00=1,80E 00=1,80E 00 = 1,259 = 1,371  2,00=1,80E 00=1,80E 00=1,259 = 0,369  2,00=1,80E 00=1,80E 00=1,249 = 1,369  2,00=1,80E 00=1,80E 00 = 1,249 = 1,369  2,00=1,90E 00=1,90E 00 = 1,249 = 1,369  2,00=1,90E 00=1,90E 00 = 1,249 = 1,365  2,50=2,00E 00=2,04E 00 = 1,229 = 1,364  2,60=2,04E 00=2,04E 00 = 1,239 = 1,364  2,60=2,13E 00=2,13E 00 = 1,235 = 1,361  2,80=2,13E 00=2,13E 00 = 1,232 = 1,359  2,90=2,17E 00=2,17E 00 = 1,232 = 1,359  3,00=2,22E 00=2,22E 00 = 1,227 = 1,358  3,00=2,22E 00=2,26E 00 = 1,229 = 1,354  3,20=2,31E 00=2,31E 00 = 1,222 = 1,354  3,20=2,31E 00=2,26E 00 = 1,229 = 1,354  3,20=2,31E 00=2,26E 00 = 1,229 = 1,349  3,40=2,42E 00=2,26E 00 = 1,229 = 1,349  3,40=2,50E 00=2,53E 00 = 1,219 = 1,349  3,40=2,50E 00=2,53E 00 = 1,219 = 1,349  3,50=2,50E 00=2,53E 00 = 1,219 = 1,339  3,00=2,77E 00=2,77E 00 = 1,205 = 1,311  4,00=2,77E 00=2,77E 00 = 1,205 = 1,331  4,00=2,77E 00=2,77E 00 = 1,205 = 1,331  4,00=2,77E 00=2,77E 00 = 1,205 = 1,331  4,00=3,11E 00=3,11E 00 = 1,180 = 1,311  4,00=3,10E 00=3,10E 00 = 1,180 = 1,311  4,00=3,50E 00=3,50E 00=3,67E 00 = 1,177 = 1,295  5,00=3,50E 00=3,60E 00=3,60E 00 = 1,177 = 1,295  5,00=3,50E 00=3,60E 00=3,60E 00 = 1,163 = 1,282  5,00=3,50E 00=3,60E 00=3,60E 00 = 1							4			
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4.80-3.34g 00-3.34g 00 -1.173 -1.303 4.90-3.42g 00-3.42g 0 -1.170 -1.299 5.00-3.50g 00-3.50g 00 -1.167 -1.295 5.10-3.59g 00-3.59g 0 -1.163 -1.290 5.20-3.67g 00-3.67g 00 -1.160 -1.286 5.30-3.76g 00-3.76g 0 -1.156 -1.282 5.80-3.85g 00-3.85g 00 -1.153 -1.277 5.50-3.94g 00-3.94g 0 -1.149 -1.272										
4.90-3.42E 00-3.42E 0 -1.17C -1.299 5.00-3.50E 00-3.50E 00 -1.167 -1.295 5.10-3.59E 00-3.59E 00 -1.163 -1.290 5.20-3.67E 00-3.67E 00 -1.160 -1.286 5.30-3.76E 00-3.76E 0 -1.156 -1.282 5.40-3.85E 00-3.85E 00 -1.153 -1.277 5.50-3.94E 00-3.94E 00 -1.149 -1.272										
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5, 10-3, 59E 00-3, 59E 00 -1, 163 -1, 290 5, 20-3, 67E 00-3, 67E 00 -1, 160 -1, 286 5, 30-3, 76E 00-3, 76E 00 -1, 156 -1, 282 5, 80-3, 85E 00-3, 85E 00 -1, 153 -1, 277 5, 50-3, 94E 00-3, 94E 00 -1, 149 -1, 272							ì			
5.20-3.67E 00-3.67E 00 -1.160 -1.286 5.30-3.76E 00-3.76E 0 -1.156 -1.282 5.80-3.85E 00-3.85E 00 -1.153 -1.277 5.50-3.94E 00-3.94E 00 -1.149 -1.272										
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5.80-3.85E 00-3.85E 00 -1.153 -1.277 5.50-3.94E 00-3.94E 00 -1.149 -1.272				-1.156	-1.282		1			
5,50m3,94E 00-3,94E 00 -1,149 -1,272	5.0	0-3.852	00-3.852 00	-1.153	-1.277					
5.60-4.04E 00-4.04E 00 -1.146 -1.267 IV-167					-1.272					
	5,6	0-4.04E	00-4.042 00	-1.146	-1.267					

and the second

5.70-4.13E 5,80-4,23E	00-4.132	0.0	-1.142	-1.262 -1.257 -1.252
5,80-4,23E	00-4.232	00	-1,139	-1,257
5. 90-4.33E	00-4.332	0	-1.135	-1.252
6.00-4.43E	00-4.432	00	-1.132	-1.247
6. 10-4.54E	00-4.542	.0	-1.128	71.241
6.20-4.64E	00-4.642	00	-1.124	-1.235
6.30-4.75E	00-4.752	.0	-1.121	-1.230
6.40-4.86E	00-4.862	00		-1.224
6.50-4.97E		strategy will be to	-1.117	
	00-4.972	.0	-1.113	-1.218
6.60-5.09E	00-5.09E	00	-1.109	-1.212
6.70-5.21E	00-5.212	.0	-1.106	-1.205
6.80-5.33E	00-5.332	00	-1.102	-1.199
6.90m5.45E	00-5.452	0	-1.098	-1.192
7.00-5,58E	00-5.582	00	-1.094	-1, 185 -1, 179
7.10-5.70E	00-5.702	0	-1.091	+1,179
7,20-5,83E	00-5.832	00	-1.087	-1.171
7.30-5.97E	20-5.972	.0	-1.083	-1.164
7.40-6.10E	00-6.10E	CO	-1.079	-1,157
7.50-6.24E	00-6.242	00	-1.076	-1 140
7 60-6 200				-1.149
7,60-6,382	00-6,382	00	-1.072	-1.142
7.70-6.52E	00-6.522	0.0	-1.068	41, 134
7.80-6.67E	00-6.672	00	-1.064	-1, 126
7.90-6.82E	00-6.822	10	-1.061	-1.118
8.00-6.97E	00-6.972	00	-1.057	+1,109
8.10-7.12E	00-7.12E	00	-1.053	-1.101
8,20-7,28E	00-7.282	00	-1,050	-1,092
8.30-7.44E	00-7.442	. 0	-1.046	-1.083
8.40-7.61E	00-7.61E	00	-1.043	-1.074
8.50-7.77E	00-7.772	00	-1.039	-1.065
8.60-7.94E	00-7.94E	00	-1.036	-1.056
8.70-8.12E		120		
0.70-0.122	00-8.12	0	-1.032	-1.046
8.80-8.29E	00-8.29E	00	-1.029	-1,036
8.90-8.47E	00-8.47E	90	-1.026	-1.026
9.00-8.72E	00-8.72	00	-1.024	-1.017
9.10-8.87E	00-8.87E	-0	-1.022	-1.009
9.20-9.02E	00-9.02E	00	-1.020	-1.000
9.30-9.18E	00-9.182	. 0	-1.018	-0.991
9.40-9.34E	00-9.352	00	-1.016	-0.983
9.50-9.51E	00-9.51E	60	-1.015	-0.974
9.60-9.68E	00-9.69É	00	-1.013	-0.964
9.70-9.86E	00-9.862	0	-1.012	-0.955
9.80-1.00E	01-1.00E	01	-1.010	-0.946
9.90-1.02E	:1-1.02E	1	-1.009	-0.936
10 00-1 042			-1.009	-0.927
10.00-1.04E	01-1.04E	01	-1.008	-0.927
10.10-1.06E	01-1.052	. 1	-1.007	-0.917
10.20-1.08E	01-1.08E	01	-1.006	-0.907
10.30-1.10E	01-1.17	11	-1.005	-0.897
10.40-1.12E	01-1.12	01	-1.004	-0.886
10.50-1.14E	01-1.152	-1	-1.004	-0.876
10,60-1.16E	01-1.17E	01	-1.004	-0.865
10.70-1.19E	01-1.192	.1	-1.004	-0.855
10,80-1,21E	01-1.212	01	-1.004	-0'.844
10.90-1.23E	01-1.242	(11	-1.004	-0.832
11.00-1.26E	01-1.262	01	-1.005	-0.821
			-1.005	-0 910
11.10-1.28E	01-1.298	11	-1.006	-0.810
11.20-1.315	01-1.322	01	-1.007	-0,798
11.30-1.33E	01-1.34	11	-1.009	-0.786
11,40-1,36E	01-1.372	01	-1.011	-0.774
11.50-1.392	01-1.402	31	-1.013	-0.761

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11.00-1.41E	01-1.432	01	-1.016	-0,748	
11.70-1.442	C1-1.46E	01	-1.020	-0.735	
11.80-1.47E	01-1.492	01	-1.024	*0.722 70.708	487
11.90-1.50E		0.1	-1.028	70.708	
12.00-1.53E		01	-1.033	-0.694	
12.10-1.56E	01-1.592	91	-1.639	-0.680	
12.20-1.59E	01-1.632	01	-1.046	+0.665	
12.20-1.63E	01-1.66\$	01	-1.053	-0.650	
12.80-1.66E	01-1.702	01	-1.062	-0.634	
12.50-1.70E	01-1.74	01	-1.071 -1.081	-0.618	
12.60-1.73E	01-1.782	01	-1.081	-0.601	
12.70-1.772		01	-1.093	+0.583	
12.80-1.80E		01	-1.106	-0.565	
12.90-1.84E		01	-1.121	-0.546	
13.00-1.88E		01	-1.137	-0.526	
13.10-1.92E	01-2.012	31	-1.155	-0.505	
13.20-1.96E	01-2.06	01	-1.175	-0.482	
13.30-2.00E	01-2.12	01	-1.198	+0.459	
13.40-2.04E		01	-1.222	-0.433	
13.50-2.09E		01	-1.250	-0.406	
13.60-2.13E		ŏ		-0.376	
13.70=2.172	01-2.302		-1.280 -1.314	-0.343	
13.80-2.212	01-2.37	01	-1.351	70.303	
		01	-4 300	-0.307	
13.90-2.26E		01	-1,392	-0.266	
14.00-2.30E	01-2.60E	01	-1.437	-0.220	
14.10-2.34E	01-2.692	01	-1.487	-0.167	
14.20-2,38E	01-2.782	01	-1.540	+0.105	
14.30-2,41E	01-2.89	01	-1.598	-0.032	
14.40-2.45E	01-3.00	01	-1.66C	0.058	
14.50-2,48E		21	-1.726	0,169	
14.60-2.50E	01-3.232	01	-1.795	0.308	
14.70-2.52E		91	-1,867	0,482	
14.80-2.54E		01	-1.940	0.697	
14.90-2.54E	01-3.492	41	-2.014	0.947	
15.00-2.55E	01-3.502	01	-2.087	1.210	
15.10-2.54E		91	-2.159	1.634	
15.20-2.54E	01-3.06E	01	-2.227	1.758	
15.30-2.52E	01-2.982	. 1	-2.293	1.863	
15.40-2.51E	01-2.91	01	-2.355	1.951	2.1
15.50-2.49E	01-2.842	. 1	-2.412	2.027	
15.00-2.47E	01-2.782	01	-2.465	2.027	
15.70-2.45E	01-2.722	11	-2,513	2.150	
15.80-2.422	01-2.662	01	-2.558	2.201	
15.90-2.40E		.1	-2.598	2.247	
16.00-2.37E	01-2.562	01	-2.634	2.289	
16.10-2.35E 16.20-2.32E	01-2.522	01	-2.667	2.327	
16,20-2,32E	01-2.482	01	-2.696	2,363	
16.30-2.30E	01-2.442	11	-2,722	2,397	
16.40-2.272		01	-2'.746	2,429	
16.50-2.25E	01-2.372	01	-2.767	2.459	
16 60-2.23E	01-2.34	01	-2'.786	2.488	
16.70-2.20E	01-2.312	11	-2.802	2,515	
16.80-2.18E	01-2.298	01	-2.817	2.542	
16.90-2.16E		.1	-2.830	2,568	
17.00-2.14E	01-2.242	01	-2.842	2.594	1000
17.10-2.12E	01-2.22	. 1	-2.852	2.619	
17.20-2.11E		01	-2.860	2.643	
17.30-2.09E		31	-2.858	2.667	
17.40-2.072		01	-2.874	2.691	1
1,0-0-5.012	01-2.108	01	2.074	2.07	IV-

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17.50-2.06E	and the same of th	1 -2.880	2.714	
		1 -2.884	2,737	
17.00-2.028		1 -2.891	2,783	
		1 -2,893	2.806	Ed . ra-
18.00-1.992		1 -2.895	2.828	
18. 10-1.98E		1 -2.896	2.851	
		-2.896	2,873	
		1 -2.896	2.896	
		1 -2,914	2.533	8000
		-2,911	2,550	
		1 -2.908	2.570	
18,80-1,942	01-2.068	1 -2,905	2,592	
18.90-1.94Z		1 -2.902	2,617	
19.00-1,93E		1 -2.898	2,644	
		1 -2.894	2.676	
		1 -2.890	2,711	
		1 -2,881	2,793	
19.50-1.922		1 -2.875	2.841	100
19,60-1,922	01-2.288	1 -2.870	2,893	
19.70-1.928		1 -2,865	2,950	
		1 -2.859	3,012	
		1 -2.853	3,078	
	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON	1 -2.847	3,220	
		1 -2.834	3,294	
		1 -2.827	3,369	
		1 -2,821	3.443	
20.50-1.932		1 -2,814	3,515	
		1 -2.807	3,585	
20.80-1.942	The state of the s	1 -2.800	3,650 3,712	
		1 -2.786	3,768	
		1 -2.780	3,820	
		1 -2.773	3,867	
		1 -2.766	3,909	468 /3/6
		1 -2.759	3,947	
		1 -2.752	3,981	
		1 -2.746	4.011	
		1 -2.733	4.061	99 A. S.
		1 -2,726	4,081	
21.90-1.992		-2.720	4.098	
22.00-2.00E	01-1.982	1 -2.714	4.114	
		1 -2.709	4.127	
		1 -2.703	4, 138	
		1 -2.698	4.147	887,5-
		1 -2.688	4.154	
		1 -2.684	4. 165	818.8-
		1 -2.680	4.168	45章 4章 5
		1 -2.676	4,170	S R. S. S.
22.90-2.08E	01-1.852	1 -2.673	4.171	A PARTY
	The second second second second	1 -2,670	4, 171	
		1 -2.667	4.170	
		1 -2,665	4. 165	
23.30-2.122	01-1.845	1 -2.664	4.103	[V-170

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\$160 X \$200 \$50 LONG \$50

23.40-2.13E	01-1.842	01	-2.663	4.161
23 50-2 14E	01-1.84	01		4, 157
73 80-7 449	0101000		-2,662	1 454
23.50=2.16E 23.70=2.17E	01-1.852	01	-2.662	4.151
23.70-2.172		01	-2.662	
23.80-2.18E	01-1.862	01	-2.663	4, 138
23.90-2.19E	01-1.872	01	-2.664	4.131
24.00-2.21E	01-1.892	J4	-2.667	4.122
			2.460	1 442
24.10-2,22E	01-1.902	01	-2.669	4.113
24.20-2.24E	01-1.928	91	-2.673	4.103
24.30-2.25E	01-1.932	01	-2.677	4.093
24.40-2.27E	01-1.95	01	-2.682	4.081
24.50-2.282	01-1.982	01	-2.687	4.069
		79		
24.60-2.30E	01-2.00	11	-2.693	4.056
24.70-2.31E	01-2.03E	01	-2.700	4.042
24.80-2.33E	01-2.062	.1	-2.708	4.027
24.90-2.35E	01-2.09E	01	-2.717	4.010
25.00-2.36E	01-2.12	-	-2.726	3.993
		01		
25.10-2.38E	01-2.162	01	-2.737	3.974
25.20-2.40E	01-2.20	01	-2.748	3.953
25.30-2.42E	01-2.25E	01	-2.760	3.931
25.40-2.43E	01-2.292	01	-2.774	3.906
				3,879
25,50-2.45E	01-2.35	01	-2.788	3,079
25.60-2.47E	01-2.40	01	-2.803	3.850
25.70-2.49E	01-2.462	01	-2.819	3.816
25.80-2.51E	01-2.53	01	-2.836	3,779
25.90-2.528	01-2.60	01	-2.854	3.736
			-3 073	
26.00-2.54E	01-2.67	11	-2.873	3.686
26.10-2.56E	01-2.76	01	-2.893	3.629
26.20-2.58E	01-2.852	1	-2.914	3.560
26.30-2.59E	01-2.942	01	-2.936	3.478
26.40-2.61E	01-3.042	01	-2.958	3.378
		and the same of th		
26,50-2,63E	01-3.142	01	-2,982	3,256
26.50-2.64E	01-3.242	<b>91</b>	-3.006	3.105
26.70-2.66E	01-3.32	01	-3.031	2.924
26.80-2.67E	01-3.382	01	-3.056	2.713
26.90-2.68E	01-3.412	01	-3.082	2.487
27.00-2.70E				2.262
	01-3.392	1	-3.108	
27.10-2.71E	01-3.34E	01	-3.135	2.059
27.20-2.72E	01-3.27	61	-3.161	1.886
27.30-2.73E	01-3,192	01	-3.188	1.744
27.30-2.73E 27.40-2.73E	01-3.112	1	-3.214	1.744
27.50-2.74E	01-3.032	01	-3.240	1.534
27 60 2 755				
27.60-2.75E	01-2.962	11	-3.265	1.456
27.70-2.75E	01-2.89E	01	-3.290	1.391
27.80-2.76E	01-2.83	31	-3,315	1.336
27.90-2.762	01-2.78E	01	-3.338	1.289
28.00-2.76E 28.10-2.76E	01-2.73	11	-3.360	1.248
20 40 2 969			-3.382	1,212
20,10-2,702	01-2.692	01		1.212
28.20-2.76E	01-2,652	41	-3.402	1,180
28.30-2.76E	01-2.622	01	-3.421	1,152
28.80-2.76E	01-2.602	51	-3.439	1, 127
28.50-2.762	01-2.572	01	-3.455	1.104
28.60-2.76E			-3.471	1.084
20.00-2.702	21-2.55	u1	-3.471	
28.70-2.75E	01-2.542	01	-3.484	1.066
28.80-2.75E	01-2.532	01	-3.496	1.049
28.90-2.75E	01-2.522	01	-3.507	1.034
29.00-2.742	01-2.528	1	-3.517	1.021
				1.010
29.10-2.742	01-2.52	01	-3.525	
29.20-2.73E	01-2.532	• 1	-3.531	1.000 IV
				AND RESIDENCE OF THE PARTY OF T

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29.30-2.73E	01-2.542	01	-3.537	0.992
29 40 2 728	01-2,558	01	3' 844	0, 986
29.40-2.72E 29.50-2.71E			-3,541	0.982
20.50-2.712	01-2.562	01	-3.543	0.302
29.60-2.71E	01-2.59	21	-3.545	0.980
29.70-2.70E	01-2.612	01	-3.545	0.981
29.80-2.69E	01-2.642	11	-3.544	0.984
29.90-2.69E	01-2.672	01	-3.542	0.991
30,00-2,68E	01-2.712	.1	-3,539	1.001
30.10-2.67E	01-2.752	01	-3.535	1.016
30.20-2.66E	01-2.83	01	-3.531	1.037
30.30-2.65E	01-2.852	01	-3.525	1.064
30.40-2.65E	01-2.92	51	-3.519	1.100
30.50-2.64E	01-2.982	01	-3.512	1.146
30.60-2.63E 30.70-2.62E	01-3.05	01	-3,505	1,205
30.70-2.62E	01-3.132	01	-3.497	1.282
30.80-2,61E	01-3.20	01	-3,489	1,378
30.90-2.60E	01-3.27	01	-3.480	1.499
31,00-2,59E	01-3.332	v1	-3,471	1,645
31.10-2.58E	01-3.36E	01	-3.462	1.813
31,20-2,57E	01-3,37	41	-3,453	1,993
31.30-2.56E	01-3.342	01	-3.444	2.172
31.40-2.552	01-3.292	01	-3.434	2,336
31.50-2.54E	01-3.212	01	-3.425	2.477
31,60-2,53E	01-3.132	9	-3,416	2,592
31.70-2.52E	01-3.042	01	-3.407	2.684
31,80-2,51E	01-2.962	11	-3, 198	2,757
31.90-2.50E	01-2.872	01	-3.390	2.815
32.00-2.49E	01-2.802	01	-3,381	2.860
32.10-2.48E	01-2.722	01	-3.373	2.895
32.20-2.47E	01-2.662	U1	-3.365	2,922
32.30-2.46E	01-2.592	01	-3.358	2.943
32.40-2.45E	01-2.548	01	-3,350	2,959
32.50-2.452	01-2.492	01	-3.343	2.971
32,60-2,442	01-2.442	21	-3,337	2.980
32.70-2.43E		100	-2 220	2.985
	01-2.39	01	-3.330	2.000
32.80-2.42E	01-2.35	41	-3.324	2,989
32.90-2.422	01-2.32	01	-3.318	2.990
33.00-2.41E	01-2.292	01	-3,313	2,990
33.10-2.41E	01-2.26	01	-3.308	2.989
33.20-2.40E	01-2.232	11	-3,303	2.986
33.30-2.40E	01-2.212	01	-3.298	2.983
33.40-2.39E	01-2.192	01	-3.294	2.978
33.50-2.39E	01-2.172	01	-3.290	2.973
33.60-2.392	01-2.152	01	-3.286	2.967
33.70-2.39E	01-2.142	01	-3.282	2.960
33.80-2.39E	01-2.132	01	-3.278	2.953
33.90-2.38E	01-2.13	01	-3.275	2.946
34.00-2.39E	01-2.12	21	-3,271	2.939
34.10-2.39E	01-2.12	01	-3.268	2.931
34.20-2.39E	01-2.12	21	-3.265	2.923
34.30-2.39E	01-2.132	01	-3.261	2.915
34.40-2.39E	01-2.132	91	-3,258	2.906
34.50-2.40E	01-2.14	01	-3.254	2.898
34,60-2,40E	01-2.158	.1	-3,251	2.890
34.70-2.412	01-2.172	01	-3.247	2.882
34,80-2,422	01-2.18	01	-3,243	2,875
34.90-2.422	01-2.212	01	-3.239	2.868
35,00-2,43E	01-2.23	71	-3,235	2.861
35 40-2 40				2.855
35.40-2.44E	01-2.26	01	-3.230	2.055 IV

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4818-11 812.1408 3 838-110 112.5 113,3410 882.1400 88

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35.20-2.45E 01-2.29E 01
                                     2.849
                           -3.225
35.30-2.46E 01-2.32E 01
                           -3.220
35.40-2.472 01-2.362
                                    2.841
                           -3.214
                      1
35.50-2.48E 01-2.40E 01
                           -3.208
35.60-2.49E 01-2.45E 01
                           -3.201
                                     2.839
35.70-2.50E 01-2.50E 01
                                     2.840
                           -3.193
35.80-2.52E 01-2.56E 01
                           -3.185
                                     2.845
                                     2.853
35.90-2.53E 01-2.62E 01
                           -3.176
36.00-2.55E 01-2.69E 01
                           -3.166
                                     2.865
36.40-2.56E 01-2.77E 01
                           -3.156
                                     2.884
36.20-2.57E 01-2.86E 01
                                     2.910
                           -3.144
36.30-2.59E 01-2.95E 01
                           -3.132
                                     2.947
36.40-2.60E 01-3.06E 01
                           -3.119
                                     2.998
                                    3.071
3.173
36.50-2.62E 01-3.18E 01
                           -3.104
36.60-2.63E 01-3.31E 01
                           -3.089
                                    3.317
36.70-2.65E 01-3.44E 01
                           -3.073
36.80-2.66E 01-3.55E 11
                           -3.056
                                     3.515
                                    3.767
36.90-2.68E 01-3.63E 01
                           -3.038
                                     4.046
37.00-2.69E 01-3.64E 01
                           -3.019
37.10-2.71E 01-3.582 01
                                     4.303
                           -2.999
37.20-2.72E 01-3.47E 01
                           -2.978
                                     4.508
                                    4.658
37.30-2.73E 01-3.35E 01
                           -2.956
                                    4.764
37.40-2.74E 01-3.23E 01
                           -2.934
37.50-2.75E 01-3.12E 01
                                    4.838
                           -2.912
                                    4.889
37.60-2.76E 01-3.02E 01
                           -2.889
37.70-2.76E 01-2.93E 01
37.80-2.77E 01-2.85E 01
                                    4.924
                           -2.866
                                    4.947
                           -2.844
37.90-2.77E 01-2.77E 01
                                    4.962
                           -2.821
38.00-2.78E 01-2.71E 01
                           -2.799
                                    4.970
                                    4.973
38.10-2.78E 01-2.65E 01
                           -2.778
38.20-2.78E 01-2.60E 1
                                    4,971
                           -2.757
38,30-2,78E 01-2.56E 01
                                    4.966
                           -2.738
38.40-2.77E 01-2.52E 01
                                    4.958
                           -2.719
                                    4.948
38.50-2.77E 01-2.49E 01
                           -2.702
38.60-2.77E 01-2.46E 1
                                    4.935
                           -2.687
38.70-2.76E 01-2.43E 01
                           -2.673
                                    4.921
38.80-2.76E 01-2.41E .1
                                    4.904
                           -2.660
38.90-2.75E 01-2.39E 01
                                    4.886
                           -2.649
39.00-2.74E 01-2.38E .1
                                    4.866
                           -2.640
39.10-2.74E 01-2.37E 01
                           -2.632
                                    4.845
39.20-2.73E 01-2.36E .1
                                    4.822
                           -2.626
                                    4.797
39.30-2.72E 01-2.36E 01
                           -2.622
39.40-2.71E 01-2.35E 1
                                    4.771
                           -2.619
                                    4.744
39.50-2.71E 01-2.36g 01
                           -2.618
                                    4.714
39.60-2.70E 01-2.36E
                           -2.618
                                    4.683
39.70-2.69E 01-2.37E 01
                           -2.620
39.80-2.68E 01-2.38E 01
                                    4.649
                           -2.623
39.90-2.68E 01-2.40E 01
                           -2.628
                                    4.614
40.00-2.67E 01-2.42E 1
                                    4.576
                           -2.633
40.10-2.66E 01-2.44E 01
                                    4.536
                           -2.640
40 20-2.66E 01-2.46E
                                    4.492
                           -2.648
                                    4.445
40.30-2.65E 01-2.49E 01
                           -2.657
40.40-2.65E 01-2.51E .1
                                    4.395
                           -2.667
40.50-2.65E 01-2.55E 01
                           -2.678
                                    4.341
                                    4.281
                           -2.690
40.60-2.64E 01-2.58E
                                    4.217
40.70-2.64E 01-2.62E 01
                           -2.702
-2.715
                                    4.146
40.90-2.64E 01-2.69E 01
                           -2.729
                                    4.069
                                    3.985 IV-173
41.00-2.63E 01-2.73E 01
                           -2.743
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41.10-2.63E	01-2.772	01	-2.757	3.893
41, 20,2, 63E	01-2.81	01	-2', 772	3.793
41.30-2.64E	01-2.842	01	-2.787	3.685
41.40-2.64E				3.560
44 64-2 642	01-2.87	01	-2.803	3.569
41.50-2.64E	01-2.89	01	-2.818	3.447
41.60-2.64E	01-2.91	31	-2.834	3.320
41.70-2.65E	01-2.912	01	-2.849	3.192
41.80-2.65E	01-2.902	01	-2.864	3,064
41.90-2.66E	01-2.892	01	-2.879	2.940
42.00-2.66E	01-2.872	01	-2.894	2.821
42.10-2.67E	01-2.842	01	-2.908	2.709
42.20-2.68E	01-2.812	01	-2.922	2.605
42.30-2.69E	01-2.78	01	-2.936	2.508
42.40-2.70E	01-2.74	31	-2.948	2. 410
			2,946	2,419
42.50-2.71E	01-2.712	01	-2.960	2.337
42.60-2.72E	01-2.67	01	-2,971	2,262
42.70-2.74E	01-2.64	01	-2.981	2.192
42.80-2,75E	01-2,61	01	-2.989	2, 128
42.90-2.77E	01-2.59E	01	-2.996	2.067
43,00-2,78E	01-2,561	J1	-3.002	2,011
43.10-2.80E	01-2.542	01	-3.006	1.958
43,20-2,82E	01-2.522	01	-3.009	1.908
43.30-2.84E	01-2.512	01	-3.009	1.861
43.40-2,86E	01-2,50	91	-3.007	1,816
43.50-2.88E	01-2.492	01	-3.003	1,772
43,60-2,90E	01-2.482	21	-2,996	1,730
43.70-2.93E				
43, 10-2, 932	01-2.482	01	-2.986	1.690
43.80-2.95E	01-2.482	01	-2.973	1,650
43.90-2.97E	01-2.492	01	-2.956	1.612
44.00-2,99E	01-2,50	01	-2,936	1,574
44.10-3.02E	01-2.512	01	-2.912	1.536
44,20-3,04E	01-2.53E	<u>.1</u>	-2,884	1,499
44.30-3.06E	01-2.562	01	-2.852	1.402
44.40-3.08E	01-2.582	01	-2.816	1.424
44.50-3.09E	01-2.622	01	-2.776	1.386
44.60-3.11E	01-2.652	6.1	-2.733	1.348
44.70-3.12E	01-2.702	01	-2.686	1.308
44.80-3,12E	01-2.75	J1	-2.638	1.267
44.90-3.12E	01-2.812	01	-2.587	1.223
45.00-3.12E	01-2.882	1	-2.536	1,177
45.10-3.11E	01-2.95E	01	-2.486	1.126
45.20-3.10E	01-3.04E	1	-2.436	1.069
45.30-3.08E	01-3.15E	01		
45 40-3 66			-2.388	1.003
45.40-3.06E	01-3.272	11	-2.343	0.923
45.50-3.04E	01-3.412	01	-2.301	0.823
45.60-3.01E	01-3.57E	11	-2.263	0.688
45.70-2.99E	01-3.77E	01	-2.228	0.493
45.80-2.96E	01-3.962	11	-2.197	0.195
45.90-2.93E	01-4.09E	01	-2.170	-0.242
45.00-2.90E	01-4.062	21	-2.146	-0.735
46.10-2.87E	01-3.882	07	-2.125	-1.121
46.20-2.84E	01-3.672	11	-2.108	-1.375
46,30-2.81Z	01-3.482	01	-2.093	-1.543
u6.40-2.78E	01-3.318	01	-2.081	-1.661
u6 . 50-2.76Z	01-3.172	01	-2.071	-1.751
ut . 60-2.73E			-2 064	-1,822
	24-1 050	1.		
	01-3.058	11	-2,064	-1,022
46.76-2.712	01-2.948	01	-2.058	-1.881
				-1.881 -1.932 -1.977

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47.00-2.65E 01-2.6	92 U1	-2.051	-2.018
47, 10-2, 63E 01-2,6	36 01	-2,051	-2'.055
47.20=2.612 01-2.5		-2.052	-2.090
47.00-2.65E 01-2.6 47.70-2.63E 01-2.6 47.20-2.61E 01-2.5 47.30-2.60E 01-2.5		-2.054	-2'.018 -2'.055 -2'.090 -2'.122
47.40-2.58E 01-2.4		-2.657	+2, 153
47.50=2.57E 01-2.4		-2.060	-2.183
17 80-2 868 04-2 II		-2. 664	
47.50-2.56E 01-2.4 47.70-2.55E 01-2.3		-2.064	-2.211
47.70-2.55E 01-2.3		-2.068	+2.238 +2.264
47. F0-2.55E 01-2.3	58 91	-2.072	+2,264
47.90-2.54E 01-2.3		-2.076	-2.290
48.00-2.54E 01-2.3	12 01	-2.081	-2.314
48.10-2.54E 01-2.2	92 01	-2.085	+2.338
48.20-2.54E 01-2.2		-2.089	-2.361
		-2.093	-2.384
48.30-2.54E 01-2.2 48.40-2.54E 01-2.2	78 01	-2.097	-2.384 -2.406
48.50-2.55E 01-2.2	78 01	-2.100	-2.427
48.50-2.56E 01-2.2		-2.102	+2.447
48.70-2.57E 01-2.2		-2.103	72.467
48.80-2.58E 01-2.3		-2.103	-2.486
48.90-2.59E 01-2.3		-2.103	+2.504
49.00-2,60E 01-2.3		-2.100	-2.521
49.10-2.62E 01-2.3	5É 01	-2.097	+2.537
49.20-2.63E 01-2.3	82 01	-2.092	-2.551
49.30-2.65E 01-2.4		-2.084	-2.565
49.40-2.67E 01-2.4		-2.075	-2.576
49.50-2.69E 01-2.5		-2.063	-2.586
49.60-2.72E 01-2.5		-2.049	-2 592
		-2.031	-2.586 -2.592 -2.596
49.70-2.74E 01-2.6			2.596
49.80-2.76E 01-2.6		-2.011	-2.596
49.90-2.79E 01-2.7		-1.986	-2,590
50.00-2.81E 01-2.8		-1.959	-2.578
50.10-2.83E 01-2.9		-1.927	-2.556
50.20-2.86E 01-3.0	02 -1	-1.891	-2.522
50.30-2.88E 01-3.1	22 01	-1.851	-2.469
50.40-2.90E 01-3.2		-1.807	-2.390
50.50-2.91E 01-3.3		-1.760	-2.271
50.60-2.93E 01-3.5		-1.709	-2.098
50.70-2.94E 01-3.6		-1.656	-1.858
50.80-2.94E 01-3.6		-1.602	-1.566
		-1.546	-1.276
		-1.491	-1.040
51.00-2.94E 01-3.5			-1.070
51.10-2.93E 01-3.3		-1.438	-0.872
51.20-2.91E 01-3.2		-1.387	+0.757
51.30-2.89E 01-3.1	0E 01	-1.339	-0.681
51.40-2.87E 01-2.9		-1.294	-0.631
51.50-2.85E 01-2.8		-1.254	-0.598
51.60-2.83E 01-2.8	0重 。1	-1.218	-0.579
51.70-2.80E 01-2.7	22 01	-1.186	-0.568
51.80-2.77E 01-2.6		-1.159	-0.565
51.90-2.75E 01-2.5		-1.135	-0.567
52.00-2.72E 01-2.5		-1.116	-0.573
52.10-2.69E 01-2.4		-1.100	-0.582
52.20-2.67E 01-2.4		-1.087	-0.594
			-0.608
52.30-2.65E 01-2.4		-1.077	-0.606
52.40-2.62E 01-2.3		-1.070	-0.625
52.50-2.60E 01-2.3		-1.066	-0.643
52.60-2.582 01-2.3		-1.064	-0.662
52.70-2.57E 01-2.2		-1.064	-0.683
52.80-2.55E 01-2.2	82 01	-1.066	-0.705 IV-

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Tem Start

to more even but such that or to mean their but that it for partitions with sweet to

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-0.728
52.90-2.54E 01-2.27E 01
                                 -1.069
                                 -1.074
53 00-2 53E 01-2 26E 01
                                           -0
                                               753
                                            -0.778
                                           70.805
53.20-2.51E 01-2.26E 01
                                 -1.087
53.30-2.50E 01-2.26E 01
                                            -0.832
                                 -1.096
                                           -0.861
-0.891
53 40-2 50E 01-2 27E 01
                                 =1.105
                                           -0.922
-0.955
53,60=2,50E 01=2,29E 01
53.70=2.50E 01=2.31E 01
                                 -1.125
-1.137
                                 -1.148
53.80-2.50E 01-2.33E 01
                                           -0,989
                                           +1.025
+1.062
53.90-2.512 01-2.362 01
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	42 01-1.07E 01	-6.857 -25,803	the best twee year at 15 he
82.80-1.0	72 01-1.092 01	-6.944 -25.889	
82.00-1.1	OE 01-1.11# 01	-7.036 -25.979	
		-7.133 -26,073	
83, 10-1, 1	5E 01-1.162 01	-7.235 -26.171	
83.20-1.1	72 01-1.178 01	-7.342 -26.273	
83 30-1 4	9E 01-1.194 01	-7.454 -26.378	
03,5001111			
	OE 01-1,200 01	-7,570 -26,486	
83,50-1,2	OE 01-1.20E 01	-7.689 <b>-26.597</b>	
83.60-1.2	OE 01-1.202 01	-7.809 -26.708	
93 70-1 2	OE 01-1.198 01	-7.929 -26.819	
03,70-132	02 01-1.198 01		
63.90-1.1	82 01-1,188 01	-8.047 -28.929	
83.90-1.1	6E 01-1.16E 01	-8.162 -27.036	
84.00-1.1	32 01-1.142 01	-8.273 -27.140	
		-8.378 -27.239	
27.10-101	0E 01-1.12E 01		
84.20-1.0	72 01-1.092 01	-8.477 -27.334	
84.30-1.0	3E 01-1.06E 01	-8.570 -27.424	
84.40-9.4	5E 00-1.02E 01	-8.658 -27.510	
84 80-0 8		-0 730 -37 500	
84.5049.3	6E 00-9.90E 00	-8.739 -27.590	
	72 00-9.562 00	-8,815 -27,665	
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84.80-8.4	12 00-8,882 00	-8,953 -27,803	
	5E 00-8.55E 00		
80,000,0	32 00-6.552 00	-9.015 -27,865	
	0E 01=1.18E 01	-9.062 -27.912	
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	2E 00-9.85E 00	-9.274 -28,130	
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85.50=8.2	2E 00-9.07E 00	-9,359 -28,216	
	7E 00-8.71E 00	-9.398 -28.255	
			and the first the first than the state of th
	4E 00-8.38E 00	-9.434 -28.292	
	4E 00-8.08E 00	-9.469 -28.326	
86.00-6.9	62 00-7.802 00	-9.501 -28.359	
	1E 00-7.54 00	-9.532 -28.390	
	82 00-7.302 00	-9.562 -28.419	
86,30-6,2	6E 00-7.08E 00	-9.590 -28.446	
86.40-6.0	7E 00-6.87E 00	-9.616 -28.472	
	OE 00-6.692 00	-9.641 -28.497	
	the second representative and property of the second		
		-9,665 -28,520	
	0E 00-6.372 00	-9.688 -28.502	
	8E 00-6.23E 00	-9,710 -28,563	
	8E 00-6.11E 00	-9.730 -28.582	
87 80-5-9	92 00-6.000 00	-9.749 -28.600	
07.10	12 00 5 00 00		
87.10-5.2	1E 00-5.91 00	-9.768 -28.617	11501 48 8 1 - 10 12 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87,20-5,1	5E 00-5,82E 00	-9,785 -28,633	DE STREET BREEK-ST. LA
87.30-5.1	OE 00-5.75# 00	-9.800 -28.647	
	6E 00-5.69E JO	-9,815 -28,661	PV_869_8498_\$28_C_9f_2f6
87.50=5.0	42 00-5.64 00	-9.829 -28.673	. 00 861.000 866.700 06
87.60-5.0	3E 00-5.618 00	-9.841 -28.684	1 20 4 Teon 849 Teon 18
87.70=5.0		-9.852 -28.694	
	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	-9.862 -28.703	一古艺 "我也有一些和自己,也是我一定和他生"全是
	6E 00-5.55E 00	-9.871 -28.710	
88.00=5.0	92 00-5.552 00	-9.878 -28.716	AN SECURITION BULL BUTTON
88.10-5.1		-9.885 -28.721	
	8E 00-5.56E 00		. AD 212, Serv. 324, 9-00, 49
00.800311			y-181 141 and and a second as

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-9,893 -28,726
88.30-5,242 00-5.582 00
88.80-5,30E 00-5.60# 00
                           -9.895 -28.
                                       730
88,50-5,37E 00-5,63E 00
                            -9,896 -28,730
                           -9.896 -28.729
-9,894 -28.727
88.50-5.44E 00-5.66E 00
88.70-5.52E 00-5.69B 00
                           -9.891 -28.724
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88. VO-5.692 00-5.778 00
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89.00-5,772 00-5.802 00
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-9,773 -28,632
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-9.585 -28.494
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91.20-6.45E 00-6.02E 00
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-9.552 -28.459
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92.50-6.42E 00-6.25E JO
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92.70-6.53E 00-6.39E .0
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                            -9.568 -28.467
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92.90-6.68E 00-6.57E 00
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    94.80-1.12E 01-1.11E 01
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  95.40-1.62E 01-1.59E 01
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IV-183
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107.90=2,27E 01=2,30E 01 = 14,861 = 21,110  108.00=2,28E 01=2,26E 01 = 14,893 = 21,119  108.30=2,28E 01=2,28E 01 = 14,893 = 21,119  108.30=2,28E 01=2,19E 01 = 14,958 = 21,125  108.30=2,28E 01=2,14E 01 = 14,958 = 21,125  108.30=2,28E 01=2,14E 01 = 14,958 = 21,183  108.80=2,28E 01=2,14E 01 = 15,014 = 21,183  108.80=2,28E 01=2,10E 01 = 1,95,074 = 21,163  108.80=2,28E 01=2,09E 01 = 15,074 = 21,165  108.70=2,28E 01=2,09E 01 = 15,074 = 21,165  108.70=2,28E 01=2,08E 01 = 15,135 = 21,190  108.80=2,28E 01=2,08E 01 = 15,135 = 21,190  109.80=2,28E 01=2,06E 01 = 15,196 = 21,204  109.70=2,28E 01=2,06E 01 = 15,196 = 21,204  109.70=2,28E 01=2,06E 01 = 15,230 = 21,235  109.30=2,28E 01=2,08E 01 = 15,230 = 21,235  109.30=2,28E 01=2,08E 01 = 15,230 = 21,235  109.80=2,39E 01=2,08E 01 = 15,382 = 21,287  109.80=2,39E 01=2,08E 01 = 15,382 = 21,287  109.80=2,39E 01=2,08E 01 = 15,382 = 21,388  109.70=2,37E 01=2,18E 01 = 15,838 = 21,388  109.70=2,37E 01=2,18E 01 = 15,839 = 21,388  109.70=2,37E 01=2,28E 01 = 15,630 = 21,489  110.80=2,88E 01=2,88E 01 = 15,874 = 21,866  110.80=2,88E 01=2,88E 01 = 15,874 = 21,666  110.80=2,88E 01=2,88E 01 = 16,22E = 21,699  110.80=2,88E 01=2,88E 01 = 16,32E = 21,699  110.80=2,88E 01=2,88E 01 = 16,32E = 21,699  110.80=2,88E 01=2,98E 01 = 16,33E = 21,531  110.80=2,88E 01=2,98E 01 = 16,33E = 21,557  111.80=2,99E 01=3,59E 01 = 16,378 = 22,360  111.80=3,03E 01=3,59E 01 = 16,877 = 22,624	107.70-2.31E 01-2.39E	01 -14.797	-21.110	
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144 80-2 879 04-2 478 04 -47 258 -22 648		01 -17-238		
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11-103	111.00-2.9/2 01-3.478	01 -17.338	-23.015	TV-185

111.00-2.93E	01-3.34\$	01	-17.469	-23.851	
112.00-2.90E	01-3.208	01	-17.571	-24.025	
112.10-2.862	01-3.072	01	-17,664		
112.20-2.828	01-2.95	01	-17.749	-24.254	
				24,234	
112.30-2.782	01-2.85	01	-17.826	-24,334	
112.40=2.74E	01-2.76	01	-17.897	-24.400	
112.50-2.712	01-2.68	01	-17.962	-24.456	
112.60-2.67E	01-2.612	01	-18.023		
112.70-2.64E	01-2.542	01	-18,079		
			410.073		
112.80-2.61E	01-2.498	01	-18.131		
112.90-2.59E	01-2.442	01	-18,180		
113.00-2.57E	01-2.40	01	-18.227	-24.656	
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113.20-2.53E	01-2.338	01	-18.314		
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113.30-2.51E	01-2,31	01	-18,355	-24.745	
113,40-2,50E	01-2,29	01	-18.394	-24,772	
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113,60-2,482	01-2,262	01	-18,470	-24,822	
113.70-2.482		01	-18,507	-24.846	
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113,80-2,47E	01-2,248	01	-18.543	-24,869	
113.80-2.47E	01-2.248	01	-18.579	-24.892	
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114.10-2.48E	01-2.25	01	-18.650		
114,20-2,492	01-2.26	01	-18,685		
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114.70-2.55E	01-2.382	01	-18.870		
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114.90-2.60E	01-2.462	01	-18,951	-25.086	
115.00-2.63E	01-2.51	01	-18.993	-25, 101 -25, 116 -25, 129	
115. 10-2.66E	01-2.57	01	-19.038	-25.116	
115.10-2.66E 115.20-2.69E	01-2.632	01	-19.085	-25 120	
445 30 2 707			40 434	25. 140	
115.30-2.72E	01-2.71	11	-19,134		
115.40-2.76E	01-2.792	01	-19.187	-25.149	
115.50-2.80E	01-2.892	01	-19.243	-25.155	
115.60-2.842	01-3.00%	01	-19:303		
115.70-2.88E	01-3.132	51	-19.369	-25.153	
115.80-2.93E	01-3.282	01	-19.440	-25.136	
115.90-2.97E	01-3.472	01	-19.517	-25.106	
116.00-3.02E	01-3.712	01	-19.602	-25.041	
116.10-3.07E	01-4.028	01	-19.694		
	01-4.432	01	-19.796		
116,20-3,11E					
116.30-3.16E	01-4.642	21	-19.907	-23.714	
116.40-3.192	01-4.302	01	-20.026	-23.045	
116.50-3.22E	01-3.922	01	~20.153	-22.786	
116.60-3.24E	01-3.65E	01	-20.286		
116.70-3.252	01-3.44	54	-20.422		
	The second secon				
116.80-3.25E	01-3.27	01	-20.558	-22.599	
116.90-3.23E	01-3.132	94	-20.690	-22.587	
117.00-3.212	01-3.022	01	-20.817	-22.584	
117.10-3.18E	01-2.928	01	-20.936		
117.20-3,152	01-2.846	01	-21.046		
117.30-3.11E	01-2.77	91	-21.147		
117,40-3,07E	01-2.71	01	-21.240		12. 4. 2.
117.50-3.035	01-2.662	41	-21.324	-22.622	
117.50-2.95E	01-2.618	01	-21.401		
17.70-2.95E	01-2.57	01	-21.472		rv-186
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117.80-2.91E 01-2.54E 01 -21.537 -22.661
117.90-2.87E 01-2.51E 01 -21.597 -22.675
118.00-2.84E 01-2.49E 01 -21.653 -22.690
118, 10-2, 81E 01-2, 47 01 -21, 706 -22, 705
118.20-2.782 01-2.462 01 -21.755 -22.719
118.30-2.762 01-2.452 01 -21.802 -22.735
118.40-2,732 01-2.452 01 -21.846 -22.750
118.50-2.712 01-2.452 01 -21.889 -22.765
118.60-2.69E 01-2.46E 01 -21.930 -22.780
118.70-2.68E 01-2.47E 01 -21.970 -22.795
118.80-2.66E 01-2.48E 01 -22.008 -22.809
118.80-2.65E 01-2.50E 01 -22.646 -22.824
119.00-2.64E 01-2.52E 01 -22.083 -22.838
119.10-2,64E 01-2.55E 01 -22,119 -22,852
119.20-2.632 01-2.582 01 -22.455 -22.865
119.30-2.63E 01-2.62E 01 -22.191 -22.878
119.40-2.63E 01-2.66E 01 -22.226 -22.889
119.50-2:63E 01-2.71E 01 -22.262 -22.901
119.60-2,632 01-2.775 01 -22.298 -22.910
119.70-2.63E 01-2.84E 01 -22.334 -22.919
119. 0-2.64E 01-2.91E 01 -22.370 -22.926
119.90-2.65E 01-2.99E 01 -22.407 -22.930
120.50-2.66E 01-3.09E 01 -22.445 -22.930
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120.90-2.82E 01-4.88E 01 -22.845 -20.900
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121.50-2.96E 01-3.27E 01 -23.220 -20.341
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122.80-3.052 01-2.828 01 -23.969 -20.349
122.50-3.04g 01-2.81g 01 -24.054 -20.351
122.60-3.03g 01-2.80g 01 -24.137 -20.352
122.70-3,022 01-2.802 01 -24,217 -20,352
122.80-3.002 01-2.802 01 -24.294 -20.350
122,90-2,982 01-2,812 01 -24,367 -20,346
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123, 20-2, 91E 01-2.86E 01 -24.566 -20.319
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123.60-2.82E 01-2.99E 01 -24.786 -20.221 IV-187
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PRC INFORMATION SCIENCES CO ROME N Y

SPACE SURVEILLANCE SOFTWARE SUPPORT. VOLUME 1, PART 1, BOOK 2. --ETC(U)

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RADC-TR-76-261-VOL-1-PT-1- NL AD-A033 514 UNCLASSIFIED 3 of 5 AD A033514 

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123.70-2.80g 01-3.04g 01 -24.834 -20.179
123 80-2, 78E 01-3 08E 01 -24, 879 -20, 126
123.90-2.762 01-3.132 01 -24.923 -20.062
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124.60-2.65E 01-3.25E 01 -25.187 -19.292
124.70-2.64E 01-3.21E 01 -25.220 -19.17B
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130,80=2,62E 01=2,03E 01 -22,03E 01 -26,022 -22,955 130,70=2,60E 01=2,37E 01 -28,063 -22,991 130,80=2,58E 01=2,33E 01 -28,063 -22,991 131,00=2,58E 01=2,33E 01 -28,18E -22,03E 131,00=2,58E 01=2,33E 01 -28,18E -22,03E 131,00=2,58E 01=2,28E 01 -28,20E -22,120 131,20=2,57E 01=2,28E 01 -28,25E -22,120 131,20=2,57E 01=2,27E 01 -28,25E -22,18E 131,30=2,56E 01=2,27E 01 -28,33E -22,20E 131,80=2,56E 01=2,27E 01 -28,03E -22,23B 131,00=2,56E 01=2,28E 01 -28,03E -22,23B 131,00=2,56E 01=2,38E 01 -28,03E -22,38E 131,20=2,56E 01=2,38E 01 -28,58E -22,38E 132,00=2,58E 01=2,38E 01 -28,58E -22,38E 132,00=2,58E 01=2,38E 01 -28,58E -22,38E 132,00=2,58E 01=2,48E 01 -28,65E -22,48E 132,00=2,58E 01=2,48E 01 -28,65E -22,48E 132,00=2,58E 01=2,48E 01 -28,69E -22,48E 132,00=2,68E 01=2,68E 01 -28,69E -22,58E 133,00=2,68E 01=3,68E 01 -28,69E -22,78E 133,00=2,68E 01=3,68E 01 -28,69E -22,78E 133,00=2,68E 01=3,68E 01 -28,69E -22,78E 133,00=2,68E 01=3,68E 01=3,68	130.40-2.632 01-2.474 01 -27.037	-21 B76
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131,30=2,56E 01=2,27E 01 -28,332 =22,206  131,50=2,56E 01=2,27E 01 -28,369 =22,233  131,50=2,56E 01=2,27E 01 -28,405 =22,259  131,70=2,56E 01=2,28E 01 -2,28E 01 -28,401 =22,286  131,50=2,56E 01=2,28E 01 -2,28E 01 -28,401 =22,286  131,50=2,56E 01=2,28E 01 -2,80E 01 -28,401 =22,381  131,50=2,56E 01=2,30E 01 -2,80E 01 -28,509 =22,337  132,00=2,56E 01=2,30E 01 -28,589 =22,386  132,00=2,56E 01=2,30E 01 -28,589 =22,386  132,00=2,57E 01=2,38E 01 -28,589 =22,386  132,00=2,57E 01=2,38E 01 -28,658 =22,435  132,00=2,58E 01=2,40E 01 -28,658 =22,435  132,00=2,59E 01=2,40E 01 -28,69E =22,459  132,00=2,59E 01=2,40E 01 -28,69E =22,459  132,00=2,59E 01=2,20E 01 -28,69E =22,483  132,00=2,59E 01=2,20E 01 -28,69E =22,531  132,00=2,60E 01=2,20E 01 -28,80E =22,531  132,00=2,60E 01=2,50E 01 -28,80E =22,531  132,00=2,60E 01=2,50E 01 -28,80E =22,531  133,00=2,60E 01=2,50E 01 -28,80E =22,53E  133,00=2,60E 01=2,50E 01 -28,90E =22,53E  133,00=2,60E 01=3,30E 01 -28,90E =22,60E  133,00=2,60E 01=3,30E 01 -28,90E =22,60E  133,00=2,60E 01=3,30E 01 -29,90E =22,60E  133,00=2,60E 01=3,30E 01 -29,90E =22,791  133,00=2,70E 01=3,40E 01 -29,20E =22,791  133,00=2,70E 01=3,90E 01 -29,20E =22,779  134,00=2,70E 01=3,90E 01 -29,20E =22,779  134,00=2,70E 01=4,90E 01 -29,30B =22,779  134,00=2,80E 01=3,90E 01 -29,50E 01 -28,50E 01  134,00=2,80E 01=3,90E 01 -29,60E 01 -29,50E 026,001  134,00=2,80E 01=3,90E 01 -29,60E 01 -29,60E 01  134,00=2,80E 01=3,90E 01 -29,60E 01 -29,60E 026,001  135,00=2,80E 01=3,90E 01 -29,80E 01 -29,60E 026,001  135,00=2,80E 01=3,90E 01 -29,80E 01 -29,80E 026,10E	131.20-2.578 01-2.288 01 -28.258	227 148
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131,70=2,56E 01=2,28E 01 - 28,441 = 22,286  131,80=2,56E 01=2,30E 01 - 28,513 = 22,337  132,00=2,56E 01=2,31E 01 - 28,549 = 22,362  132,10=2,57E 01=2,33E 01 - 28,565 = 22,436  132,20=2,57E 01=2,33E 01 - 28,685 = 22,436  132,20=2,57E 01=2,38E 01 - 28,681 = 22,411  132,80=2,58E 01=2,38E 01 - 28,691 = 22,459  132,80=2,59E 01=2,44E 01 - 28,694 = 22,459  132,80=2,59E 01=2,44E 01 - 28,730 = 22,483  132,80=2,69E 01=2,44E 01 - 28,767 = 22,507  132,80=2,60E 01=2,57E 01 - 28,804 = 22,554  132,80=2,60E 01=2,57E 01 - 28,804 = 22,554  132,80=2,60E 01=2,57E 01 - 28,804 = 22,554  133,80=2,60E 01=2,63E 01 - 28,892 = 22,554  133,80=2,60E 01=2,60E 01 - 28,957 = 22,627  133,80=2,60E 01=2,80E 01 - 28,93F = 22,627  133,80=2,60E 01=2,80E 01 - 28,93F = 22,627  133,80=2,60E 01=2,80E 01 - 28,93F = 22,627  133,80=2,60E 01=3,80E 01 - 29,037 = 22,70E  133,80=2,70E 01=3,80E 01 - 29,037 = 22,70E  133,80=2,70E 01=3,80E 01 - 29,18 = 22,79E  133,80=2,70E 01=3,80E 01 - 29,289 = 22,878  133,80=2,70E 01=3,80E 01 - 29,289 = 22,878  134,80=2,70E 01=4,26E 01 - 29,379 = 22,878  134,80=2,70E 01=3,80E 01 - 29,399 = 22,878  134,80=2,80E 01=3,87E 01 - 29,399 = 22,878  135,80=2,80E 01=3,80E 01 - 29,504 = 25,930  135,80=2,80E 01=3,80E 01 - 29,80E 01 - 29,600 = 26,00E  135,80=2,80E 01=3,80E 01 - 29,80E 01 - 29,600 = 26,00E  135,80=2,80E 01=3,80E 01 - 29,80E 01 - 29,600 = 26,00E  135,80=2,80E 01=3,80E 01 - 29,80E 01 - 29,600 = 26,10E  135,80=2,80E 01=3,80E 01 - 29,80E 01 -	131 BA-2 BAP A4-2 278 A4 -28 HAE	-22 250
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132.00-2,56z 01-2,31z 01 -28,549 -22,362  132.10-2;57z 01-2,33z 01 -28,65z -22,386  132.20-2,58z 01-2,38z 01 -28,65z -22,435  132.80-2,58z 01-2,38z 01 -28,65s -22,435  132.80-2,58z 01-2,44z 01 -28,65s -22,459  132.80-2,59z 01-2,44z 01 -28,737 -22,507  132.80-2,60z 01-2,44z 01 -28,767 -22,507  132.70-2,60z 01-2,52z 01 -28,804 -22,531  132.80-2,61z 01-2,52z 01 -28,804 -22,531  132.80-2,61z 01-2,52z 01 -28,804 -22,554  133.90-2,65z 01-2,69z 01 -28,880 -22,578  133.70-2,65z 01-2,69z 01 -28,91s h22,602  133.70-2,65z 01-2,83z 01 -28,92 -22,651  133.70-2,65z 01-2,83z 01 -28,92 -22,651  133.70-2,65z 01-2,83z 01 -28,92 -22,651  133.70-2,72 01-3,12z 01 -29,077 -22,702  133.80-2,66z 01-3,14z 01 -29,077 -22,702  133.80-2,66z 01-3,14z 01 -29,077 -22,702  133.80-2,67z 01-3,43z 01 -29,077 -22,702  133.80-2,77z 01-3,43z 01 -29,203 -22,791  133.80-2,77z 01-3,43z 01 -29,203 -22,791  133.90-2,77z 01-3,63z 01 -29,203 -22,791  133.90-2,77z 01-3,63z 01 -29,203 -22,791  133.90-2,77z 01-4,89z 01 -29,203 -22,791  134.70-2,80z 01-4,71z 01 -29,379 -23,159  134.70-2,77z 01-4,99z 01 -29,379 -23,159  134.70-2,80z 01-5,76z 01 -29,379 -23,159  134.70-2,80z 01-5,76z 01 -29,470 -25,715  134.70-2,80z 01-3,47z 01 -29,659 -26,010  134.80-2,85z 01-3,37z 01 -29,659 -26,010  134.80-2,85z 01-3,27z 01 -29,659 -26,010  134.90-2,86z 01-3,12z 01 -29,803 -26,903  135.70-2,80z 01-3,04z 01 -29,805 -26,010	131.90-2.56E 01-2.30E 01 -28.513	<b>~22'.337</b>
132, 10-2;57E 01-2,33E 01 -28;685 -22;386  132,80-2;58E 01-2,38E 01 -28;658 -22;435  132,80-2;58E 01-2,44E 01 -28;658 -22;459  132,80-2;58E 01-2,44E 01 -28;658 -22;459  132,80-2;58E 01-2,44E 01 -28;730 -22;483  132,80-2;60E 01-2,44E 01 -28;737 -22;507  132,70-2;60E 01-2,52E 01 -28;804 -22;531  132,80-2;61E 01-2,57E 01 -28;804 -22;531  132,80-2;61E 01-2,57E 01 -28;804 -22;554  132,90-2;62E 01-2,63E 01 -28;807 -22;602  133,10-2;65E 01-2,76E 01 -28;957 -22;602  133,10-2;65E 01-2,36E 01 -28;957 -22;651  133,30-2;66E 01-2,36E 01 -29;077 -22;702  133,80-2;66E 01-3,02E 01 -29;077 -22;702  133,80-2;66E 01-3,42E 01 -29;077 -22;702  133,80-2;65E 01-3,42E 01 -29;18 -22;79  133,70-2;72E 01-3,43E 01 -29;203 -22;791  133,80-2;75E 01-3,63E 01 -29;203 -22;791  133,80-2;75E 01-3,63E 01 -29;203 -22;828  138,00-2;75E 01-3,90E 01 -29;203 -22;828  138,00-2;75E 01-3,90E 01 -29;334 -22;828  138,00-2;75E 01-4,99E 01 -29;379 -23;159  134,40-2;77E 01-4,89E 01 -29;379 -23;159  134,50-2;80E 01-3,67E 01 -29;517 -25;862  134,80-2;80E 01-3,67E 01 -29;659 -26;010  134,70-2;80E 01-3,67E 01 -29;659 -26;011  135,30-2;80E 01-3,04E 01 -29;801 -29;609  135,00-2;80E 01-3,04E 01 -29;801 -29;009  135,00-2;80E 01-3,04E 01 -29;809 -26;118  135,30-2;80E 01-2;90E 01 -29;801 -29;009  135,30-2;80E 01-2;90E 01 -29;809 -26;1164	132 00-2 568 04-2 348 01 -28 640	
132.20-2.57E 01-2.55E 01 -28.621 -22.435 132.80-2.58E 01-2.38E 01 -28.658 -22.435 132.80-2.58E 01-2.44E 01 -28.759 -22.483 132.80-2.59E 01-2.44E 01 -28.769 -22.597 132.70-2.60E 01-2.52E 01 -28.804 -22.531 132.80-2.61E 01-2.52E 01 -28.804 -22.531 132.80-2.61E 01-2.52E 01 -28.804 -22.531 132.80-2.61E 01-2.52E 01 -28.80E 02.578 133.70-2.63E 01-2.63E 01 -28.98 01 -22.578 133.70-2.65E 01-2.63E 01 -28.957 -22.602 133.10-2.65E 01-2.83E 01 -28.957 -22.657 133.30-2.65E 01-2.83E 01 -29.937 -22.657 133.30-2.67E 01-2.83E 01 -29.937 -22.676 133.80-2.68E 01-3.14E 01 -29.18 -22.729 133.50-2.69E 01-3.14E 01 -29.18 -22.729 133.50-2.72E 01-3.33E 01 -29.18 -22.729 133.70-2.72E 01-3.33E 01 -29.23 -22.791 133.70-2.75E 01-3.63E 01 -29.246 -22.828 133.90-2.75E 01-3.63E 01 -29.246 -22.828 133.90-2.75E 01-3.63E 01 -29.379 -23.199 134.40-2.77E 01-4.86E 01 -29.379 -23.199 134.40-2.77E 01-4.89E 01 -29.379 -23.199 134.70-2.80E 01-3.57E 01 -29.554 -25.930 134.80-2.82E 01-3.57E 01 -29.554 -25.930 134.80-2.82E 01-3.57E 01 -29.554 -25.930 134.70-2.80E 01-3.22E 01 -29.559 -26.010 134.80-2.85E 01-3.33E 01 -29.754 -26.068 135.80-2.85E 01-3.22E 01 -29.899 -26.118 135.30-2.88E 01-3.04E 01 -29.899 -26.118 135.30-2.88E 01-2.98E 01 -29.899 -26.118		
132,80-2,55E 01-2,81E 01 -28,658 +22,435 132,80-2,55E 01-2,44E 01 -28,654 +22,459 132,80-2,50E 01-2,44E 01 -28,730 -22,507 132,70-2,60E 01-2,52E 01 -28,804 +22,531 132,80-2,60E 01-2,52E 01 -28,804 +22,531 132,80-2,60E 01-2,57E 01 -28,802 +22,554 133,90-2,63E 01-2,63E 01 -28,81E -22,57E 133,70-2,63E 01-2,63E 01 -28,91E -22,57E 133,70-2,65E 01-2,63E 01 -28,91E -22,627 133,70-2,65E 01-2,63E 01 -28,91E -22,627 133,80-2,66E 01-3,22E 01 -29,037 +22,651 133,80-2,66E 01-3,14E 01 -29,037 +22,702 133,80-2,66E 01-3,14E 01 -29,11E -22,75E 133,80-2,71E 01-3,14E 01 -29,100 +22,75E 133,90-2,71E 01-3,91E 01 -29,203 -22,75E 133,90-2,75E 01-3,90E 01 -29,204 -22,87E 134,00-2,75E 01-3,90E 01 -29,314 -22,87E 134,00-2,75E 01-4,96E 01 -29,314 -22,87E 134,00-2,75E 01-4,96E 01 -29,314 -22,87E 134,00-2,75E 01-3,90E 01 -29,314 -22,87E 134,00-2,80E 01-3,87E 01 -29,354 -22,89E 134,00-2,80E 01-3,87E 01 -29,564 -25,930 134,00-2,80E 01-3,33E 01 -29,564 -25,930 134,00-2,80E 01-3,20E 01 -29,659 -26,010 134,00-2,80E 01-3,20E 01 -29,80E 01 -26,00B 135,00-2,80E 01-3,04E 01 -29,80E 01 -26,00B 135,00-2,80E 01-3,04E 01 -29,80E 01 -26,00B 135,00-2,80E 01-2,90E 01 -29,80E 01 -26,00B 135,00-2,80E 01-3,04E 01 -29,80E 01 -26,00B		
132.80-2.58		
132.80-2.58	132.80-2.58E 01-2.38E 01 -29.658	<b>-22.435</b>
132,80=2,59E 01=2,448 01 -28,730 =22,483 132,80=2,60E 01=2,888 01 -28,767 =22,507 132,80=2,60E 01=2,52E 01 -28,804 =22,534 132,90=2,62E 01=2,53E 01 -28,804 =22,534 132,90=2,62E 01=2,63E 01 -28,800 =22,538 133,00=2,63E 01=2,63E 01 -28,980 =22,538 133,00=2,65E 01=2,76E 01 -28,957 =22,627 133,30=2,66E 01=2,83E 01 -28,957 =22,651 133,30=2,67E 01=2,83E 01 -29,037 =22,651 133,30=2,67E 01=3,02E 01 -29,037 =22,651 133,80=2,69E 01=3,02E 01 -29,077 =22,702 133,80=2,69E 01=3,02E 01 -29,18 =22,729 133,80=2,73E 01=3,03E 01 -29,180 =22,758 133,70=2,72E 01=3,43E 01 -29,180 =22,758 133,90=2,73E 01=3,63E 01 =29,203 =22,791 133,80=2,73E 01=3,63E 01 =29,23 =22,878 133,90=2,75E 01=3,90E 01 -29,334 =22,858 134,00=2,77E 01=4,26E 01 =29,379 =23,159 134,20=2,79E 01=4,26E 01 =29,379 =23,159 134,20=2,79E 01=4,79E 01 =29,379 =23,159 134,20=2,80E 01=4,71E 01 =29,564 =25,930 135,80=2,82E 01=3,87E 01 =29,564 =25,930 136,00=2,82E 01=3,87E 01 =29,564 =25,930 136,00=2,82E 01=3,87E 01 =29,564 =25,930 136,00=2,82E 01=3,87E 01 =29,559 =26,010 134,90=2,86E 01=3,22E 01 =29,754 =26,068 135,00=2,86E 01=3,02E 01 =29,754 =26,068 135,00=2,86E 01=3,02E 01 =29,801 =26,093 135,00=2,86E 01=3,02E 01 =29,801 =26,093 135,00=2,86E 01=3,02E 01 =29,801 =26,001		
132.80=2.60E 01=2.88		
132.70=2.60E 01-2.57E 01 -28.804 -22.531  132.80=2.61E 01=2.57E 01 -28.842 -22.554  132.90=2.62E 01=2.63E 01 -28.842 -22.554  133.70=2.63E 01=2.63E 01 -28.918 -22.602  133.70=2.65E 01=2.83E 01 -28.957 -22.627  133.70=2.66E 01=2.83E 01 -28.97 -22.651  133.30=2.67E 01=2.92E 01 -29.037 -22.676  133.80=2.67E 01=3.02E 01 -29.037 -22.702  133.80=2.69E 01=3.02E 01 -29.18 -22.729  133.50=2.71E 01=3.27E 01 -29.18 -22.729  133.70=2.72E 01=3.43E 01 -29.203 -22.758  133.70=2.72E 01=3.63E 01 -29.204 -22.828  133.90=2.75E 01=3.90E 01 -29.246 -22.828  134.40=2.77E 01=4.89E 01 -29.239 -22.878  136.00=2.76E 01=4.99E 01 -29.334 -22.956  134.40=2.77E 01=4.89E 01 -29.379 -23.159  134.50=2.80E 01=3.87E 01 -29.517 -25.862  134.50=2.80E 01=3.87E 01 -29.517 -25.862  134.50=2.80E 01=3.87E 01 -29.554 -25.930  135.50=2.85E 01=3.87E 01 -29.559 -26.010  134.80=2.85E 01=3.33E 01 -29.754 -26.068  135.00=2.86E 01=3.22E 01 -29.754 -26.068  135.00=2.87E 01=3.98E 01 -29.89E 01 -29.809 -26.118  135.70=2.88E 01=3.98E 01 -29.89E -26.101  134.80=2.85E 01=3.98E 01 -29.89E -26.118  135.70=2.88E 01=3.98E 01 -29.89E -26.118		
132.80=2.61E 01=2.57E 01 -28.842 -22.554 132.90=2.62E 01=2.63E 01 -28.880 -22.578 133.00=2.63E 01=2.63E 01 -28.957 -22.602 133.10=2.65E 01=2.83E 01 -28.957 -22.627 133.20=2.66E 01=2.83E 01 -28.957 -22.651 133.30=2.67E 01=2.92E 01 -29.037 -22.656 133.80=2.67E 01=3.02E 01 -29.037 -22.702 133.50=2.69E 01=3.14E 01 -29.180 -22.729 133.50=2.69E 01=3.32TE 01 -29.18 -22.729 133.70=2.72E 01=3.27E 01 -29.18 -22.729 133.70=2.72E 01=3.03E 01 -29.203 -22.758 133.70=2.75E 01=3.90E 01 -29.206 -22.828 133.90=2.75E 01=3.90E 01 -29.206 -22.828 134.40=2.77E 01=4.89E 01 -29.379 -23.159 134.20=2.79E 01=5.76E 01 -29.379 -23.159 134.30=2.80E 01=4.71E 01 -29.564 -25.930 134.40=2.81E 01=4.79E 01 -29.564 -25.930 134.80=2.82E 01=3.87E 01 -29.564 -25.930 134.80=2.82E 01=3.87E 01 -29.59 -26.010 134.80=2.85E 01=3.33E 01 -29.75E -26.011 134.90=2.86E 01=3.22E 01 -29.75E -26.011 134.90=2.86E 01=3.22E 01 -29.75E -26.001 134.90=2.86E 01=3.33E 01 -29.754 -26.068 135.00=2.87E 01=3.08E 01 -29.809 -26.108 135.00=2.87E 01=3.98E 01 -29.809 -26.108 135.10=2.88E 01=3.08E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108	132.50-2.60E 01-2.48E 01 -28.767	<b>-22.507</b>
132.80=2.61E 01=2.57E 01 -28.842 -22.554 132.90=2.62E 01=2.63E 01 -28.880 -22.578 133.00=2.63E 01=2.63E 01 -28.957 -22.602 133.10=2.65E 01=2.83E 01 -28.957 -22.627 133.20=2.66E 01=2.83E 01 -28.957 -22.651 133.30=2.67E 01=2.92E 01 -29.037 -22.656 133.80=2.67E 01=3.02E 01 -29.037 -22.702 133.50=2.69E 01=3.14E 01 -29.180 -22.729 133.50=2.69E 01=3.32TE 01 -29.18 -22.729 133.70=2.72E 01=3.27E 01 -29.18 -22.729 133.70=2.72E 01=3.03E 01 -29.203 -22.758 133.70=2.75E 01=3.90E 01 -29.206 -22.828 133.90=2.75E 01=3.90E 01 -29.206 -22.828 134.40=2.77E 01=4.89E 01 -29.379 -23.159 134.20=2.79E 01=5.76E 01 -29.379 -23.159 134.30=2.80E 01=4.71E 01 -29.564 -25.930 134.40=2.81E 01=4.79E 01 -29.564 -25.930 134.80=2.82E 01=3.87E 01 -29.564 -25.930 134.80=2.82E 01=3.87E 01 -29.59 -26.010 134.80=2.85E 01=3.33E 01 -29.75E -26.011 134.90=2.86E 01=3.22E 01 -29.75E -26.011 134.90=2.86E 01=3.22E 01 -29.75E -26.001 134.90=2.86E 01=3.33E 01 -29.754 -26.068 135.00=2.87E 01=3.08E 01 -29.809 -26.108 135.00=2.87E 01=3.98E 01 -29.809 -26.108 135.10=2.88E 01=3.08E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108 135.30=2.88E 01=3.98E 01 -29.809 -26.108	132.70-2.60E 01-2.52E 01 -28.804	-22,531
132.90-2.62E 01-2.63E 01 -28.880 -22.578 133.00-2.65E 01-2.69E 01 -28.918 -22.602 133.10-2.65E 01-2.76E 01 -28.957 -22.657 133.30-2.67E 01-2.83E 01 -29.937 -22.651 133.30-2.67E 01-3.02E 01 -29.077 -22.676 133.50-2.69E 01-3.02E 01 -29.077 -22.702 133.50-2.69E 01-3.02E 01 -29.618 -22.729 133.50-2.77E 01-3.27E 01 -29.180 -22.758 133.70-2.72E 01-3.43E 01 -29.246 -22.828 133.90-2.75E 01-3.63E 01 -29.246 -22.828 133.90-2.75E 01-3.90E 01 -29.246 -22.828 133.90-2.75E 01-3.90E 01 -29.334 -22.956 134.00-2.77E 01-4.99E 01 -29.334 -22.956 134.00-2.77E 01-4.99E 01 -29.379 -23.159 134.30-2.80E 01-4.71E 01 -29.470 -25.775 134.40-2.81E 01-4.19E 01 -29.470 -25.775 134.50-2.82E 01-3.67E 01 -29.517 -25.862 134.50-2.83E 01-3.67E 01 -29.517 -25.862 134.50-2.83E 01-3.58E 01 -29.517 -25.862 134.50-2.83E 01-3.68E 01 -29.576 -26.001 134.50-2.85E 01-3.33E 01 -29.504 -25.975 134.70-2.86E 01-3.22E 01 -29.706 -26.001 134.50-2.85E 01-3.33E 01 -29.706 -26.001 134.50-2.85E 01-3.33E 01 -29.706 -26.003 135.70-2.86E 01-3.02E 01 -29.801 -26.003 135.70-2.86E 01-3.02E 01 -29.804 -26.118 135.30-2.86E 01-2.98E 01 -29.805 -26.114 135.30-2.86E 01-2.98E 01-2.98E 01 -29.805 -26.114		
133.00-2.65E 01-2.69E 01 -28.918		-20' 890
133.70=2.65E 01=2.76E 01 -28.957 =22.627 133.20=2.66E 01=2.83E 01 -28.997 =22.651 133.30=2.67E 01=2.92E 01 -29.037 =22.676 133.80=2.68E 01=3.02E 01 -29.077 =22.702 133.80=2.69E 01=3.14E 01 -29.118 =22.729 133.60=2.71E 01=3.27E 01 -29.160 =22.758 133.70=2.72E 01=3.43E 01 -29.246 =22.828 133.90=2.75E 01=3.63E 01 -29.246 =22.828 133.90=2.75E 01=3.90E 01 -29.246 =22.828 134.00=2.75E 01=3.90E 01 -29.344 =22.956 134.00=2.75E 01=4.89E 01 -29.379 =23.159 134.20=2.79E 01=5.76E 01 -29.379 =23.159 134.20=2.79E 01=5.76E 01 -29.379 =23.159 134.30=2.80E 01=4.71E 01 -29.470 =25.715 134.80=2.81E 01=4.19E 01 -29.470 =25.715 134.80=2.81E 01=4.19E 01 -29.470 =25.715 134.80=2.82E 01=3.87E 01 -29.517 =25.862 134.70=2.83E 01=3.87E 01 -29.517 =25.862 134.70=2.83E 01=3.87E 01 -29.517 =25.862 134.70=2.83E 01=3.87E 01 -29.659 =26.010 134.80=2.85E 01=3.33E 01 -29.659 =26.010 134.80=2.85E 01=3.33E 01 -29.754 =26.068 135.00=2.85E 01=3.22E 01 -29.754 =26.068 135.00=2.85E 01=3.04E 01 -29.896 =26.111 135.30=2.88E 01=3.04E 01 -29.896 =26.111		
133.20=2,66E 01=2.83E 01 -28,977 =22,651 133.30=2,67E 01=2.92E 01 -29,037 =22,676 133.80=2,69E 01=3.02E 01 -29,118 =22,729 133.80=2,69E 01=3.27E 01 -29,118 =22,729 133.80=2,72E 01=3.43E 01 -29,160 =22,758 133.70=2,72E 01=3.43E 01 -29,203 =22,791 133.80=2,73E 01=3.63E 01 -29,246 =22.828 133.90=2,75E 01=3.90E 01 -29,246 =22.828 133.90=2,75E 01=3.90E 01 -29,334 =22.956 134.10=2,77E 01=4.89E 01 -29,379 =23.159 134.20=2,77E 01=4.89E 01 -29,379 =23.159 134.30=2,80E 01=4.49E 01 -29,424 =24,774 134.30=2,80E 01=4.49E 01 -29,424 =24,774 134.80=2,81E 01=4.49E 01 -29,517 =25,862 134.80=2,81E 01=4.49E 01 -29,517 =25,930 134.80=2,81E 01=3.87E 01 -29,564 =25,930 134.80=2,81E 01=3.64E 01 -29,517 =25,975 134.70=2,84E 01=3.47E 01 -29,659 =26,010 134.80=2,85E 01=3.33E 01 -29,706 =26,041 134.90=2,85E 01=3.22E 01 -29,754 =26,068 135.00=2,87E 01=3.02E 01 -29,896 =26,118 135.30=2,88E 01=3.04E 01 -29,896 =26,114 135.30=2,88E 01=2.98E 01 -29,942 =26,164		
133.20=2,66E 01=2.83E 01 -28,977 =22,651 133.30=2,67E 01=2.92E 01 -29,037 =22,676 133.80=2,69E 01=3.02E 01 -29,118 =22,729 133.80=2,69E 01=3.27E 01 -29,118 =22,729 133.80=2,72E 01=3.43E 01 -29,160 =22,758 133.70=2,72E 01=3.43E 01 -29,203 =22,791 133.80=2,73E 01=3.63E 01 -29,246 =22.828 133.90=2,75E 01=3.90E 01 -29,246 =22.828 133.90=2,75E 01=3.90E 01 -29,334 =22.956 134.10=2,77E 01=4.89E 01 -29,379 =23.159 134.20=2,77E 01=4.89E 01 -29,379 =23.159 134.30=2,80E 01=4.49E 01 -29,424 =24,774 134.30=2,80E 01=4.49E 01 -29,424 =24,774 134.80=2,81E 01=4.49E 01 -29,517 =25,862 134.80=2,81E 01=4.49E 01 -29,517 =25,930 134.80=2,81E 01=3.87E 01 -29,564 =25,930 134.80=2,81E 01=3.64E 01 -29,517 =25,975 134.70=2,84E 01=3.47E 01 -29,659 =26,010 134.80=2,85E 01=3.33E 01 -29,706 =26,041 134.90=2,85E 01=3.22E 01 -29,754 =26,068 135.00=2,87E 01=3.02E 01 -29,896 =26,118 135.30=2,88E 01=3.04E 01 -29,896 =26,114 135.30=2,88E 01=2.98E 01 -29,942 =26,164	133. 10-2.65E 01-2.76E 01 -28.957	-22,627
133.30-2.67E 01-2.92E 01 -29.037 -22.676  133.80-2.68E 01-3.02E 01 -29.077 -22.702  133.80-2.69E 01-3.14E 01 -29.118 -22.729  133.50-2.71E 01-3.27E 01 -29.160 -22.758  133.70-2.72E 01-3.43E 01 -29.203 -22.791  133.80-2.73E 01-3.63E 01 -29.246 -22.828  133.90-2.75E 01-3.90E 01 -29.289 -22.878  138.00-2.76E 01-4.26E 01 -29.334 -22.956  134.00-2.76E 01-4.89E 01 -29.379 -23.159  134.20-2.77E 01-4.89E 01 -29.379 -23.159  134.30-2.80E 01-4.71E 01 -29.470 -25.715  134.40-2.80E 01-4.19E 01 -29.470 -25.715  134.50-2.80E 01-3.87E 01 -29.517 -25.862  134.50-2.80E 01-3.64E 01 -29.517 -25.862  134.70-2.80E 01-3.33E 01 -29.659 -26.010  134.80-2.80E 01-3.33E 01 -29.754 -26.068  135.50-2.87E 01-3.22E 01 -29.754 -26.068  135.50-2.87E 01-3.22E 01 -29.889 -26.118  135.50-2.88E 01-3.04E 01 -29.889 -26.118		
133.80		
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133.50=2.71E 01-3.27E 01 -29.160 =22.758 133.70=2.72E 01-3.43E 01 -29.203 =22.791 133.80=2.73E 01-3.63E 01 -29.246 =22.828 133.90=2.75E 01-3.90E 01 -29.289 =22.878 134.00=2.76E 01=4.26E 01 -29.379 =23.159 134.10=2.77E 01=4.89E 01 -29.379 =23.159 134.20=2.79E 01-5.76E 01 -29.424 =24.774 134.30=2.80E 01=4.71E 01 -29.424 =24.774 134.30=2.80E 01=4.71E 01 -29.470 =25.715 134.60=2.81E 01=4.71E 01 -29.470 =25.715 134.50=2.80E 01=3.87E 01 -29.517 =25.862 134.50=2.80E 01=3.87E 01 -29.564 =25.930 136.60=2.83E 01=3.64E 01 -29.5611 =25.975 134.70=2.84E 01=3.47E 01 -29.659 =26.010 134.80=2.85E 01=3.33E 01 -29.706 =26.041 134.90=2.86E 01=3.22E 01 -29.754 =26.068 135.00=2.86E 01=3.04E 01 -29.801 =26.093 135.10=2.86E 01=3.04E 01 -29.804 =26.18 135.20=2.86E 01=2.96E 01 -29.896 =26.18 135.20=2.86E 01=2.96E 01 -29.896 =26.18	133.00-2.682 01-3.022 01 -29.077	-22.702
133.70-2.72E 01-3.43E 01 -29.203 -22.791 133.80-2.73E 01-3.63E 01 -29.246 -22.828 133.90-2.75E 01-3.90E 01 -29.289 -22.878 134.00-2.76E 01-4.26E 01 -29.334 -22.956 134.40-2.77E 01-4.89E 01 -29.379 -23.159 134.20-2.79E 01-5.76E 01 -29.470 -25.774 134.30-2.80E 01-4.71E 01 -29.470 -25.775 134.60-2.81E 01-4.19E 01 -29.577 -25.862 134.80-2.82E 01-3.87E 01 -29.564 -25.930 134.80-2.83E 01-3.64E 01 -29.564 -25.930 134.80-2.85E 01-3.33E 01 -29.659 -26.010 134.80-2.86E 01-3.33E 01 -29.659 -26.010 134.90-2.86E 01-3.22E 01 -29.659 -26.010 134.90-2.86E 01-3.22E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.188 135.20-2.88E 01-2.98E 01 -29.896 -26.184	133.50-2.69E 01-3.14E 01 -29.118	-22,729
133.70-2.72E 01-3.43E 01 -29.203 -22.791 133.80-2.73E 01-3.63E 01 -29.246 -22.828 133.90-2.75E 01-3.90E 01 -29.289 -22.878 134.00-2.76E 01-4.26E 01 -29.334 -22.956 134.40-2.77E 01-4.89E 01 -29.379 -23.159 134.20-2.79E 01-5.76E 01 -29.470 -25.774 134.30-2.80E 01-4.71E 01 -29.470 -25.775 134.60-2.81E 01-4.19E 01 -29.577 -25.862 134.80-2.82E 01-3.87E 01 -29.564 -25.930 134.80-2.83E 01-3.64E 01 -29.564 -25.930 134.80-2.85E 01-3.33E 01 -29.659 -26.010 134.80-2.86E 01-3.33E 01 -29.659 -26.010 134.90-2.86E 01-3.22E 01 -29.659 -26.010 134.90-2.86E 01-3.22E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.088 135.00-2.88E 01-3.04E 01 -29.804 -26.188 135.20-2.88E 01-2.98E 01 -29.896 -26.184	133.50-2.712 01-3.272 01 -29.160	-22,758
133.80=2.73E 01=3.63E 01 -29.246 =22.828 133.90=2.75E 01=3.90E 01 -29.289 =22.878 134.00=2.76E 01=4.89E 01 -29.379 =23.159 134.20=2.79E 01=5.76E 01 -29.479 =23.159 134.30=2.80E 01=4.71E 01 -29.470 =25.715 134.30=2.80E 01=4.19E 01 -29.470 =25.715 134.40=2.81E 01=4.19E 01 -29.517 =25.862 134.80=2.82E 01=3.87E 01 -29.564 =25.930 134.80=2.82E 01=3.64E 01 =29.651 =25.975 134.70=2.84E 01=3.47E 01 -29.659 =26.010 134.80=2.85E 01=3.33E 01 -29.706 =26.041 134.90=2.85E 01=3.22E 01 -29.754 =26.068 135.00=2.87E 01=3.22E 01 -29.801 =26.093 135.10=2.88E 01=3.04E 01 -29.896 =26.141 135.30=2.88E 01=2.98E 01 -29.896 =26.141		
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134.00=2.76E 01=4.26E 01 -29.334 -22.956 134.10=2.77E 01=4.89E 01 -29.379 -23.159 134.20=2.79E 01=5.76E 01 -29.424 -24.774 134.30=2.80E 01=4.71E 01 -29.470 -25.715 135.40=2.81E 01=4.19E 01 -29.517 -25.862 134.50=2.82E 01=3.87E 01 -29.564 -25.930 134.60=2.82E 01=3.64E 01 -29.561 -25.975 134.70=2.84E 01=3.47E 01 -29.659 -26.010 134.80=2.85E 01=3.33E 01 -29.706 -26.041 134.90=2.86E 01=3.22E 01 -29.754 -26.068 135.00=2.86E 01=3.22E 01 -29.801 -26.093 135.10=2.88E 01=3.04E 01 -29.896 -26.118 135.20=2.88E 01=2.98E 01 -29.896 -26.141 135.30=2.88E 01=2.98E 01 -29.896 -26.141		[19] 전 [19] [2] [2] [2] [2] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
134. 40=2.77E 01=4.89E 01 -29.379 -23.159 134. 20=2.79E 01=5.76E 01 -29.424 -24.774 134. 30=2.80E 01=4.71E 01 -29.470 -25.715 134. 60=2.80E 01=4.19E 01 -29.517 -25.862 134. 60=2.80E 01=3.87E 01 -29.564 -25.930 134. 60=2.80E 01=3.64E 07 -29.651 -25.975 134. 70=2.84E 01=3.47E 01 -29.659 -26.010 134. 80=2.80E 01=3.47E 01 -29.659 -26.010 134. 80=2.80E 01=3.30E 01 -29.706 -26.041 134. 90=2.80E 01=3.20E 01 -29.706 -26.041 134. 90=2.80E 01=3.20E 01 -29.801 -26.068 135. 00=2.80E 01=3.04E 01 -29.801 -26.068 135. 00=2.80E 01=3.04E 01 -29.801 -26.068 135. 30=2.80E 01=3.04E 01 -29.801 -26.068	133,90-2,752 01-3,902 01 -29,289	-22,878
134. 10=2.77E 01=4.89E 01 -29.379 -23.159 134. 20=2.79E 01=5.76E 01 -29.424 -24.774 134. 30=2.80E 01=4.71E 01 -29.470 -25.715 134. 40=2.81E 01=4.19E 01 -29.517 -25.862 134. 50=2.82E 01=3.87E 01 -29.564 -25.930 134. 60=2.83E 01=3.64E 01 -29.659 -26.010 134. 80=2.85E 01=3.33E 01 -29.659 -26.010 134. 80=2.85E 01=3.33E 01 -29.706 -26.041 134. 90=2.86E 01=3.22E 01 -29.706 -26.068 135. 00=2.87E 01=3.12E 01 -29.801 -26.068 135. 10=2.88E 01=3.04E 01 -29.896 -26.118 135. 30=2.88E 01=3.04E 01 -29.896 -26.118	130.00-2.762 01-4.262 01 -29.334	-22,956
130.20=2.79± 01=5.76± 01 -29.424 -24.774 134.30=2.80± 01=4.71± 01 -29.470 -25.715 134.40=2.81± 01=4.19± 01 -29.517 -25.862 134.50=2.82± 01=3.87± 01 -29.564 -25.930 134.50=2.83± 01=3.64± 01 -29.611 -25.975 134.70=2.84± 01=3.47± 01 -29.659 -26.010 134.80=2.85± 01=3.33± 01 -29.706 -26.041 134.90=2.85± 01=3.22± 01 -29.754 -26.068 135.00=2.87± 01=3.12± 01 -29.801 -26.093 135.10=2.88± 01=3.04± 01 -29.896 -26.118 135.20=2.88± 01=2.98± 01 -29.896 -26.114 135.30=2.88± 01=2.98± 01 -29.896 -26.114		
134.30-2.80E 01-4.71E 01 -29.470 -25.715 138.40-2.81E 01-4.19E 01 -29.517 -25.862 134.50-2.82E 01-3.87E 01 -29.564 -25.930 134.50-2.83E 01-3.64E 01 -29.659 -26.010 134.70-2.84E 01-3.33E 01 -29.706 -26.041 134.90-2.85E 01-3.33E 01 -29.706 -26.041 134.90-2.86E 01-3.22E 01 -29.754 -26.068 135.00-2.87E 01-3.12E 01 -29.801 -26.093 135.10-2.88E 01-3.04E 01 -29.896 -26.118 135.20-2.88E 01-2.98E 01 -29.896 -26.141 135.30-2.89E 01-2.92E 01 -29.896 -26.164	138 30-3 90M 04-E 364 04 30 E38	이 얼굴 살아 그 그 아이들이 아니는
138.80=2.81E 01=4.19E 01 -29.517 =25.862 134.80=2.83E 01=3.87E 01 -29.564 -25.930 134.60=2.83E 01=3.64E 01 -29.651 =25.975 134.70=2.84E 01=3.47E 01 -29.659 -26.010 134.80=2.85E 01=3.33E 01 -29.706 =26.041 134.90=2.85E 01=3.22E 01 -29.754 =26.068 135.00=2.87E 01=3.12E 01 -29.801 =26.068 135.00=2.87E 01=3.04E 01 -29.801 =26.093 135.10=2.88E 01=3.04E 01 -29.896 =26.118 135.20=2.88E 01=2.98E 01 -29.896 =26.141 135.30=2.88E 01=2.98E 01 -29.896 =26.164		
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134.80=2.82E 01=3.64E 01 =29.664 =25.930 134.80=2.83E 01=3.64E 01 =29.611 =25.975 134.70=2.84E 01=3.47E 01 =29.659 =26.010 134.80=2.85E 01=3.33E 01 =29.706 =26.041 134.90=2.86E 01=3.22E 01 =29.754 =26.068 135.00=2.87E 01=3.12E 01 =29.801 =26.093 135.10=2.88E 01=3.04E 01 =29.896 =26.118 135.20=2.88E 01=2.98E 01 =29.896 =26.141 135.30=2.89E 01=2.98E 01 =29.896 =26.164	134.40-2.812 01-4.192 01 -29.517	
138.80=2.83E 01=3.64E 01 =29.611 =25.975 134.70=2.84E 01=3.47E 01 =29.659 =26.010 134.80=2.85E 01=3.33E 01 =29.706 =26.041 134.90=2.86E 01=3.22E 01 =29.754 =26.068 135.00=2.87E 01=3.12E 01 =29.801 =26.093 135.10=2.88E 01=3.04E 01 =29.849 =26.118 135.20=2.88E 01=2.98E 01 =29.896 =26.141 135.30=2.88E 01=2.98E 01 =29.896 =26.141		
134.70~2.84  01~3.47  01 ~29.659 ~26.010 134.80~2.85  01~3.33  01 ~29.706 ~26.041 134.90~2.86  01~3.22  01 ~29.754 ~26.068 135.00~2.87  01~3.12  01 ~29.801 ~26.093 135.10~2.88  01~3.04  01 ~29.849 ~26.118 135.20~2.88  01~2.98  01 ~29.896 ~26.141 135.30~2.89  01~2.98  01 ~29.896 ~26.164	178 88-2 888 DE-2 888 NE -20 201	
134.80-2.85E 01-3.33E 01 -29.706 -26.041 134.90-2.86E 01-3.22E 01 -29.754 -26.068 135.00-2.87E 01-3.12E 01 -29.801 -26.093 135.10-2.88E 01-3.04E 01 -29.849 -26.118 135.20-2.88E 01-2.98E 01 -29.896 -26.141 135.30-2.89E 01-2.92E 01 -29.942 -26.164		[[전문] [[[전문] [[[[[[[[[[[[[[[[[[[[[[[[[[[
134.80-2.85E 01-3.33E 01 -29.706 -26.041 134.90-2.86E 01-3.22E 01 -29.754 -26.068 135.00-2.87E 01-3.12E 01 -29.801 -26.093 135.10-2.88E 01-3.04E 01 -29.849 -26.118 135.20-2.88E 01-2.98E 01 -29.896 -26.141 135.30-2.89E 01-2.92E 01 -29.942 -26.164		
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135.00-2.872 01-3.122 01 -29.801 -26.093 135.10-2.882 01-3.042 01 -29.849 -26.118 135.20-2.882 01-2.982 01 -29.896 -26.141 135.30-2.892 01-2.922 01 -29.942 -26.164		마시트 프레트 아이트 프로그리아 아이들이 되었다면 하는 것이 있다면 하는 것이 없는 것이 없다면 없다면 없다면 그 것이 없는 것이 없다면
135, 10-2, 882 01-3.042 01 -29.849 -26, 118 735.20-2.882 01-2.982 01 -29.896 -26, 141 135.30-2, 892 01-2.922 01 -29, 942 -26, 164		
135,10-2,88E 01-3.04E 01 -29.849 -26.118 735.20-2.88E 01-2.98E 01 -29.896 -26.141 135.30-2.89E 01-2.92E 01 -29.942 -26.164		
135.20-2.882 01-2.982 01 -29.896 -26.141 135.30-2.892 01-2.922 01 -29.942 -26.164		-26,118
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135.00-2.69E 01-2.87E 01 -29.988 -28.189		
	135.00-2.698 01-2.678 01 -29.988	-20.100 rv-189

135.50-2.90E 01-2.8	32 v1 -3	30.034	-26.207
135 60-2 90E 01-2.7			26, 229
135.70=2.902 01=2.7 135.70=2.902 01=2.7 135.80=2.902 01=2.7	78 01 -3	30, 121	-26,250
135.80-2.902 01-2.7		30, 164	-26,270
125 00-2 000 01-2 7		20 208	-26,291
135.90-2.902 01-2.7	38 01 -		20.23
136.00-2.90E 01-2.7			-26,311
136. 10-2.892 01-2.7	18 01 -3	30.285	-26.331
136.20-2.892 01-2.7	12 01 -3	30.322	-26.350
136.30-2.89E 01-2.7			-26.370
136.40-2.88E 01-2.7		30.394	-26.389
136.50-2.88E 01-2.7		0.428	-26.408
136 60-2 888 01-2 7			-26.426
136,60-2,872 01-2.7			
136.70-2.87E 01-2.7			-26.444
136.80-2.86E 01-2.8		30.522	-26,462
136.90=2.86E 01=2.8	52 01 -3	30.551	-26.479
137.00-2.85E 01-2.9			-26.495
137.00-2.85E 01-2.9	52 01 -3	30.606	-26.510
137.20-2,842 01-3,0	28 01 -3	30.632	-26,525
137.30-2.832 01-3.0			-26.537
137.40-2.82E 01-3.1	78 01 -		-26,548
137.50-2.812 01-3.2			-26,556
137,60-2,802 01-3,3	92 01 -	30.726	-26.559
137.70-2.80E 01-3.5	42 01 -:	30,748	-26.554
137,80-2,792 01-3,7	21 01 -	30,748	-26,537
137.90-2.782 01-3.9	62 61 -:	30.791	-26.495
138,00-2,77E 01-4.2			-26.390
138.10-2.76E 01-4.7			-26.080
138.20-2.75E 01-5.1			-25,058
138.30-2.75E 01-4.6	18 91 -	30.871	-24.272
138,40-2,74E 01-4,1			-24,050
138.50-2.73E 01-3.8			-23.970
138,60-2,72E 01-3.6			-23,937
138.70-2.71E 01-3.4			-23.925
138.80-2.70E 01-3.2	98 01 -:	30.968	-23.924
138.90-2.69E 01-3.1			-23.930
139.00-2.69E 01-3.0		31.009	-23.940
139.10-2.68E 01-2.9			-23.952
139.20-2.67E 01-2.8			-23.967
139.30-2.66E 01-2.8	12 (1 -		-23.984
	4 04 -	24 007	
139.40-2.65E 01-2.7	4 01 -	31.093	-24.002
139.80-2.65E 01-2.6	92 01 -	31.113	-24.020
139.60-2.642 01-2.6			-24.040
139.70-2.63E 01-2.5			-24.061
139.80-2.63E 01-2.5			-24.082
139.90-2.62E 01-2.5	28 01 -:		-24.104
140.00-2.61E 01-2.4		31.234	-24.127
140.10-2.61E 01-2.4			-24.150
140.20-2.60E 01-2.4			-24.174
140.30-2.592 01-2.4			-24.199
140.40-2,59E 01-2.4			-24,224
140 80-2 889 04-2			24.250
140,50-2.582 01-2.3			
140.60-2.58E 01-2.3			-24,277
140.70-2.57E 01-2.3	BE 01 -	31.426	-24.305
140.80-2,572 01-2,3	82 01 -	31,456	-24,334
140.90-2.56E 01-2.3	8E 01 -	31.497	-24.363
141.00-2.56E 01-2.3	82 01 -	31.518	-24,394
141.10-2.55E 01-2.3	P'-de- Check Marked - Consideration		-24.426
141,20-2,55E 01-2.4	일시 하셨다. 보이 없었습니다. "너무워?	A CONTRACTOR OF THE PARTY OF TH	-24,460
141.30-2.55E 01-2.4			-24.495

IV -190

141.40-2.54E 01-2	.432 01 -31.649	-24.532	
141,50-2,542 01-2	#50 04 34' 683	24' 574	
101,0002,302 0102	. 038 01 -31,663	020,3/1	
141.60-2,542 01-2	.488 01 -31.718	-24,613	
141.70-2.53E 01-2	.500 01 -31.754	-24.657	
141.80=2.53E 01-2		-24.704	
141.90-2.53E 01-2	.578 01 -31.826	-24,756	
	.611 01 -31.862	-24.812	
142. 10-2.52E 01-2	.65# 01 -31.899	-24.873	
142.20-2.52E 01-2		-24.940	
142.50-2.51E 01-2	.742 01 -31.974	-25.015	
142.80-2.51E 01-2			e un companyon de sente, a companyon de sente e companyon de la companyon de l
		m25,096	
142.50-2.512 01-2	.842 01 -32.050	m25, 191	
142.50=2.50E 01-2	.892 01 -32.088	-25.296	MATERIAL CONTRACTOR OF THE CONTRACT OF THE CON
	. OAE 01 -35.000		
142.70-2,50E 01-2	.948 01 -32.127	-25,412	
142.80-2.50E 01-2		-25.542	
		-25.342	
142.90-2.49E 01-3	.012 01 -32.203	-25.684	
143.00=2.49E 01-3			The second section of the second seco
143.40-2.49E 01-3	1.042 01 -32.280	-25.993	
143.20-2.48E 01-3	.03 01 -32.318		
			The first of the state of the s
143.30-2.48E 01-3	01 01 -32.357	-26,304	
143.40=2.48E 01=2	.978 01 -32.395		
	32.3		
143,50-2,47E 01-2	928 01 -32.432	-26,580	
143.60-2.472 01-2	.87E 01 -32.470	-26.699	
143,70-2,472 01-2		-26,805	
143.80-2.47E 01-2	.76E 01 -32.544	-26.900	
143,90-2,472 01-2		-26,985	
144.00-2.46E 01-2	.652 01 -32.616	-27.060	
144. 10-2. 46E 01-2		-27' 420	
144.20-2.46E 01-2	.552 01 -32.687	-27.190	
144.30-2.462 01-2		-27'.247	
			and the same and t
144.40-2.46E 01-2	.462 01 -32.756	-27,299	
144.40-2.462 01-2	.422 01 -32.790	-27,346	
The TA 2 has 04 3	303 04 30 30		
144.50-2.46E 01-2	.382 01 -32.823	-27.391	
144.70-2.462 01-2	.358 01 -32.856	-27.432	
144.80-2.46E 01-2	.322 01 -32.888	-27.471	
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145.00-2.46E 01-2		-27.543	
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145.20-2.46E 01-2	.242 01 -33.009	-27.608	
145.30-2,472 01-2		-27,639	
145.40-2.47E 01-2	-218 01 -33-066	-27.668	
145.50-2.472 01-2			
		-27.696	
145.60-2.48E 01-2	. 192 01 -33.120	-27.723	
145.70-2.48E 01-2		-27.749	
	1 1 2 1 - 3 3 1 4 0		10.000
145.80-2.48E 01-2	.198 01 -33.171	-27,775	DELEGISTRE TREATMENT OF A PARTY O
145.90-2.49E 01-2	. 192 01 -33. 195	-27.799	
146. 00:3. 800 04.3	705 04 33 34	19" 002	
146.00-2.50E 01-2	.202 01 -33,218	-27,823	
146.10-2.502 01-2	.202 01 -33.240	-27.846	
146.20-2.51E 01-2		-27' 860	85.5-10 205.2001.307
444		-27,869	医外面外性下颌 医肾髓上腺性管炎 医皮肤
146.30-2.522 01-2		-27.891	56, Cmr0 3ec, 1=01, 13f
186.80-2.52E 01-2			
			reading series and the
146.50-2,53E 01-2	.262 11 -33.320	-27.932	\$2.2-10 000.000.000.000
146.60-2.54E 01-2	284 01 -33 330		ELLI-FU BYELEADNICH
			EC.1-10 BY1.2408, 281
146.70-2,55E 01-2	.302 01 -33.355		用E.另一下三 在EE.以中的是,只是个
146.80-2.56E 01-2	.332 01 +33.370	The second second second	10.1-10 201, 1-07, 121
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146,90-2,578 01-2	.378 01 -33,384	-28,005	05.4840 271.5800.31
147.00-2.58E 01-2	.402 01 -33.397	-28.021	M. Sate Barasantist
		-28.035	
147.10-2.59E 01-2			
			111、111、111、111、111、111、111、111、111、11
147.20-2.602 01-2			
147.20-2.60E 01-2			-191

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147.30-2.61E 01-2.54E 01 -33.429 -28.060
147 40-2,628 01-2,598 01 -33,437 -28,069
147.50-2.63E 01-2.65E 01 -33.444 -28.076
147.60-2.64E 01-2.72E 01 -33.450 -28.080
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147.80-2.65E 01-2.89E 01 -33.457 -28.073
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148.80-2.700 01-3.892 01 -33.445 -27.403
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152,30-2.23E 01-2.31E 01 -33.668 -26.684
152,30-2.23E 01-2.31E 01 -33.689 -26.741
152,40-2.22E 01-2.32E 01 -33.711 -26.800
152,50-2.21E 01-2.33E 01 -33.733 -26.800
152.60-2,19E 01-2.34E 01 -33.756 -26.927
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153.40-2.14E 01-2.37E 01 -33.872 -27.289 IV-192
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153.30-2,13g 01-2.37g 01 -33.920 -27,446
153.40-2.122 01-2.362 01 -33.944 -27.525
153.50-2, 11E 01-2, 35# 01 -33, 968 -27, 604
153.60-2.102 01-2.342 01 -33.992 -27.683
153.70-2.102 01-2.332 01 -34.616 -27.760
153.80-2.09E 01-2.31E 01 -34.040 -27.835
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154.00-2.08E 01-2.28E 01 -34.088 -27.980

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154.20-2.07E 01-2.24E 01 -34.135 -28.114

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154.$0-2.07E 01-2.17E 01 -34,205 -28,296
154.80-2.07E 01-2.15E 01 -34.228 -28.351
154.70-2.072 01-2.138 01 -34.251 -28.403
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156.90-2.24E 01-2.04E 01 -34.623 -29.207
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157, 20-2, 302 01-2,092 01 -34,637 -29,276
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157.90-2.45E 01-2.33E 01 -34.594 -29.411
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158,10-2,492 01-2,452 01 -34,556 -29,440
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158.50-2.56E 01-2.78E 01 -34.436 -29.473
158.60-2.58E 01-2.89E 01 -34.398 -29.471
158.70-2.582 01-3.032 01 -34.356 -29.459
158,80-2.59E 01-3.20E 01 -34.312 -29.433
                                                     (2年2月1年17日 (2月4日 日本)
(3年2月1日 - 17日 (17日)
158,90-2,59E 01-3.41E 01 -34.267 -29.379
159,00-2,59E 01-3,68E 01 -34,220 -29,267 IV-193
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159.30-2.58g 01-4.03g 01 -34.173 -29.007
159 20.2.57g 01-4.35g 01 -34.126 -28.36g
159.30-2.56g 01-4.17g 01 -34.080 -27.575
159.40-2.542 01-3.782 01 -34.037 -27.207
159.50-2,512 01-3.462 01 -33.995 -27.056
159.60-2.492 01-3.222 01 -33.957 -26.985
159.70-2,462 01-3.032 01 -33,922 -26,949
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159.90-2.402 01-2.738 01 -33.861 -26.926
160.00-2.36E 01-2.61E 01 -33.836 -26.926
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160.30=2.26E 01=2.33E 01 =33.781 =26.947
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162.10-1.75E 01-1.76E 01 -33.811 -27.224
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162.70m1.63E 01=1.64E 01 =33.883 =27.422
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162.90=1.60E 01=1.61E 01 =33.909 =27.485
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163.20-1.56E 01-1.57E J1 -33.950 -27.578
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163.50-1.53E 01-1.53E 01 -33.992 -27.668
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165.70-1.522 01-1.542 01 -34.267 -28.286
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166.70-1.70E 01-1.75E 01 -34.313 -28.574
166.80-1.73E 01-1.78E 01 -34.311 -28.606
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167.40-1.94E 01-2.06E 11 -34.237 -28.828
167.50-1.982 01-2.122 01 -34.211 -28.875
167.60-2.02E 01-2.19E 01 -34.178 -28.927
167.70-2.07E 01-2.27E 01 -34.138 -28.986
167.80-2.128 01-2.358 01 -34.089 -29.055
167.90-2.17E 01-2.45E 01 -34.030 -29.137
168.00-2.22E 01-2.56E 01 -33.960 -29.237
168.10-2.27E 01-2.68E 01 -33.876 -29.365
168.20-2.318 01-2.818 01 -33.779 -29.533
168.30-2.34E 01-2.93E 01 -33.669 -29.757
168.40-2.35E 01-3.02E 11 -33.548 -30.045
168.50-2.36E 01-3.04E 01 -33.420 -30.379
168.60-2.342 01-2.982 01 -33.291 -30.706
168.70-2.31E 01-2.85E 01 -33.166 -30.976
168.80-2.26E 01-2.70E 01 -33.650 -31.183
168.90-2.20E 01-2.56E 01 -32.946 -31.337
169.00-2.13E 01-2.42E 01 -32.856 -31.455
169.10-2.06E 01-2.29E 01 -32.779 -31.548
169.20-1.99E 01-2.17E 01 -32.714 -31.624
169.30-1.92E 01-2.06E 01 -32.660 -31.687
169.40-1.85E 01-1.96E J -32.614 -31.741
169.50-1.78E 01-1.87E 01 -32.576 -31.788
169.60-1.712 01-1.792 01 -32.545 -31.831
169.70-1.64E 01-1.71E 01 -32.519 -31.869
169.80-1,58E 01-1.64E 01 -32,498 -31,904
169.90-1.52E 01-1.57E 01 -32.480 -31.936
170.00-1,46E 01-1.50E 01 -32,466 -31,966
170.10=1.41E 01=1.44E 01 =32.455 =31.994
170.20=1.36E 01=1.39E 31 =32.445 =32.021
170.30-1.31E 01-1.33E 01 -32.438 -32.046
170.40-1.26E 01-1.28E 31 -32.433 -32.071
170.50-1.212 01-1.232 01 -32.429 -32.094
170.60-1.16E )1-1.18E .1 -32.427 -32.116
170.70-1.122 01-1.132 01 -32.425 -32.138
170.80-1.08E 01-1.09E 1 -32.425 -32.159
```

```
170.90-1.04E 01-1.05E 01 -32.425 -32.179
171 00.9 99E 00-1 018 01 -32 426 -32 199
171.10-9.61E 00-9.68E 00 -32.428 -32.218
171.20-9.25E 00-9.31E 00 -32.431 -32.236
171.30-8.90E 00-8.95E 00 -32.434 -32.254
171.40-8.55E 00-8.60E 00 -32.437 -32.272
171.50-8.23E 00-8.26E 00 -32.441 -32.289
171.60-7.912 00-7.942 00 -32.445 -32.306
171.70=7.60E 00=7.62E 00 -32.449 -32.323
171.80-7.30E 00-7.32E 00 -32.454 -32.339
171.90-7.01E 00-7.03E 00 -32.458 -32.355
172.00-6.73E 00-6.75E 00 -32.463 -32.370
172.10-6.46E 00-6.47E 00 -32.469 -32.386
172,20-6,202 00-6,212 00 -32,474 -32,401
172.30-5.95E 00-5.95E 00 -32.479 -32.415
172, 40-5, 70E 00-5.71E 00 -32, 485 -32, 430
172.50-5.462 00-5.472 00 -32.491 -32.444
172.60-5,23E 00-5,24E 00 -32,496 -32,458
172.70-5.01E 00-5.01E 00 -32,502 -32,472
172.70-5.01E 00-5.01E 00 -32.502 -32.472
172.80-4.80E 00-4.80E 00 -32.508 m32.485
172.90-4.59E 00-4.59E 00 -32.514 m32.498
173.00-4.39E 00-4.39E 00 -32.520 m32.511
173.10-4.20E 00-4.20E 00 -32.525 m32.524
173.20-3.84E 00-3.84E 00 -32.532 m32.538
173.30-3.61E 00-3.61E 00 -32.539 m32.551
173.40-3.39E 00-3.39E 00 -32.553 m32.564
173.50-3.17E 00-3.17E 00 -32.553 m32.577
173.50-3.17E 00-3.17E 00 -32.553 -32.577
173.60-2.96E 00-2.96E 00 -32.560 -32.590
173.70-2.75E 00-2.75E 00 -32.567 -32.603
173.70m2.75E 00-2.75E 00 -32.567 =32.603

173.80m2.55E 00-2.55E 00 -32.574 =32.615

173.90m2.36E 00-2.36E 00 -32.581 =32.627

174.00m2.16E 00m2.16E 00 -32.588 =32.638

174.10m1.98E 00m1.98E 00 -32.594 =32.650

174.20m1.79E 00m1.79E 00 -32.601 =32.661

174.30m1.62E 00m1.62E 00 -32.608 =32.672

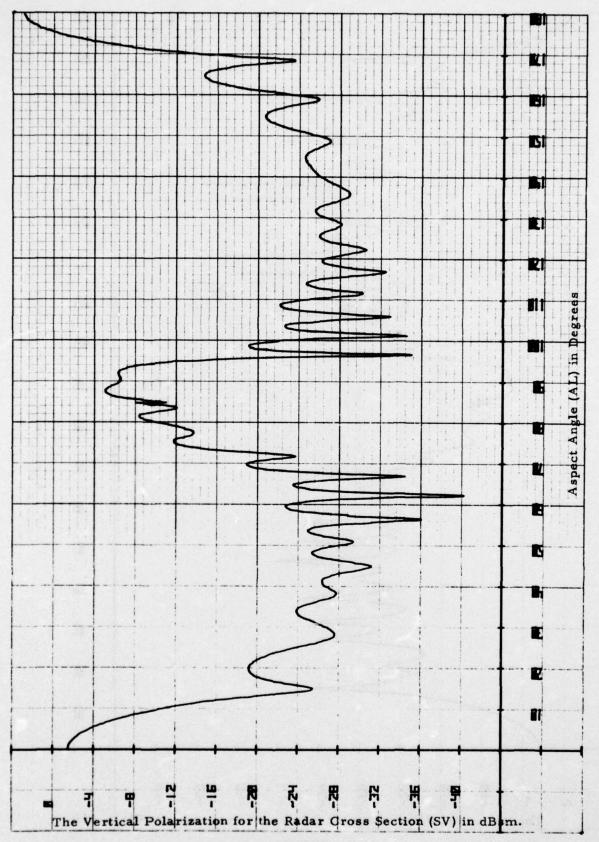
174.40m1.44E 00m1.44E 00 -32.615 =32.682

174.50m1.27E 00m1.27E 00 -32.621 =32.692

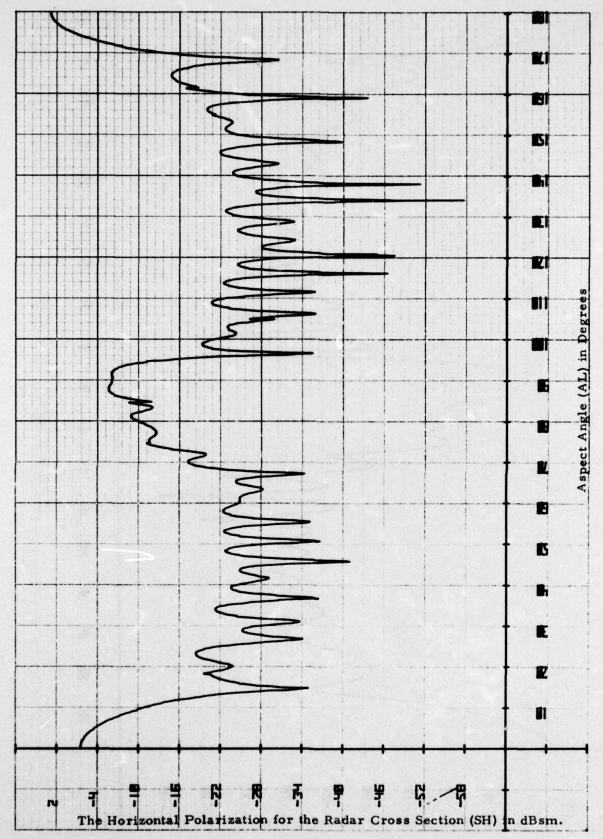
174.60m1.11E 00m1.11E 00 -32.628 =32.702
174.60-1.11E 00-1.11E 00 -32.628 -32.702
174.70-9.48E-01-9.48E-01 -32.635 -32.712
174.80=7.91E=01=7.91E=01 =32.641 =32.722
174.90-6.38E-01-6.38E-01 -32.648 -32.731
175.00-4.90E-01-4.90E-01 -32.654 -32.740
175.10-3.45E-01-3.45E-01 -32.661 -32.749
175.20-2.04E-01-2.04E-01 -32.667 -32.757
175.30-6.65E-02-6.65E-02 -32.673 -32.765
175.40 6.72E-02 6.72E-02 -32.679 -32.773
 175.50 1.972-01 1.972-01 -32.685 -32.781
 175.60 3.242-01 3.242-01 -32,691 -32,789
 175.70 4.472-01 4.472-01 -32.697 -32.796
 175.80 5.67E-01 5.67E-01 -32.703 -32.803
 175.90 6.83E-01 6.83E-01 -32.709 -32.810
176.00 7.96E=01 7.96E=01 -32.714 -32.817
176.10 9.05E=01 9.05E=01 -32.720 -32.824
176.20 1.01E 00 1.01E 00 -32.725 -32.830
176.30 1.11E 00 1.11E 00 -32.731 -32.836
176,40 1,21E 00 1.21E 00 -32,736 -32,842
176.50 1.31E 00 1.31E 00 -32.741 -32.847
176.60 1.41E 00 1.41E 00 -32.746 -32,853
176.70 1.50E 00 1.50E 00 -32.751 -32.858 IV-196
```

176.80 1.582 0 -32,756 -32,863 1.672 00 -32,761 -32,868 1.58E 00 1.67E 00 177.00 1.75E 00 1.752 00 -32.766 -32.873 177.10 1.83E 00 -32.770 -32.877 1.90E 00 -32.775 -32.881 1.83E 00 1.90E 00 177.30 1.98E 00 1.982 00 -32.779 -32.885 177.40 2.05E 00 2.05E JO -32.783 -32.889 177.50 2.11E 00 2.11E 00 -32.787 -32.893 177.50 2.18E 00 2.18E 00 -32.791 -32.896 177.70 2.24E 00 2.24E 00 -32.795 -32.900 177.80 2.30E 00 2.30E 00 -32.799 -32.903 177.90 2.36E 00 2.36£ 00 -32.803 -32.906 178.00 2.41E 00 2.412 00 -32.806 -32.908 178.10 2.46E 00 -32.810 2.462 00 -32.911 178.20 2.51E 00 2.512 00 -32.813 -32.913 178.30 2.55E 00 2.55E 00 -32.817 -32.915 178.40 2.59E 00 2.59E 00 -32.820 -32.917 178.50 2.63E 00 2.63E 00 -32.823 -32.919 178.60 2.67E 00 2.67E 00 -32.826 -32.920 178.70 2.71E 00 2.71E 00 -32.828 -32.922 178.80 2.74E 00 2.742 -32.831 -32.923 UO 178.90 2.77E 00 2.77 00 -32.834 -32.924 179.00 2.79E 00 2.792 0 -32.836 -32.924 179.10 2.82E 00 2.82E 00 -32.838 -32.925 179.20 2.84E 00 -32.841 -32.925 2.842 .0 179.30 2.86E 00 2.86E 00 -32.843 -32.926 179.40 2.87E 00 2.87E 0 -32.845 -32.926 179.50 2.892 00 2.892 00 -32.846 -32.926 179.60 2.90E 00 2.90E 10 -32.848 -32.925 179.70 2.91E 00 2.91E 00 -32.850 -32.925 179.80 2.91E 00 2.91E 00 -32.851 -32.924 179.90 2.92E 00 2.92E 00 -32.853 -32.923 180.00 2.92E 00 2.92E 0 -32.854 -32.922 Plots from the Sample Output

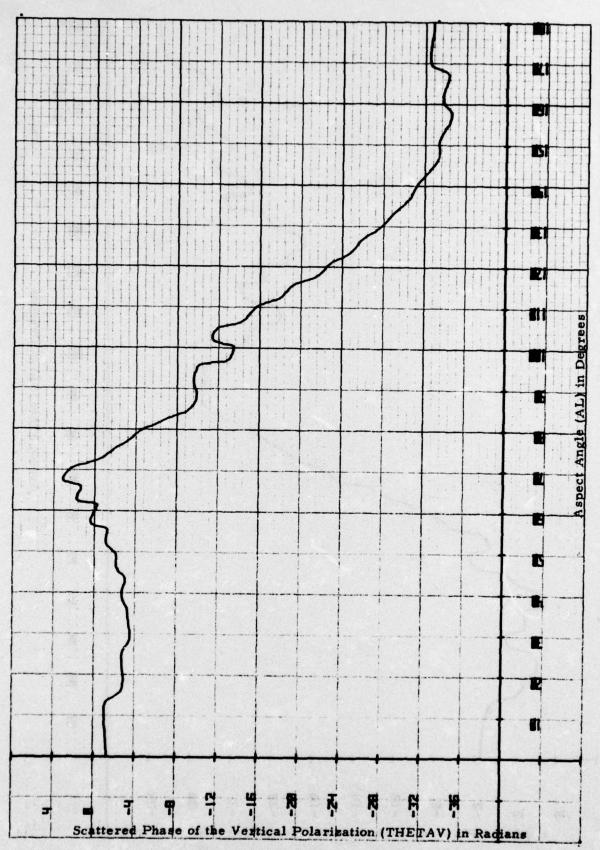
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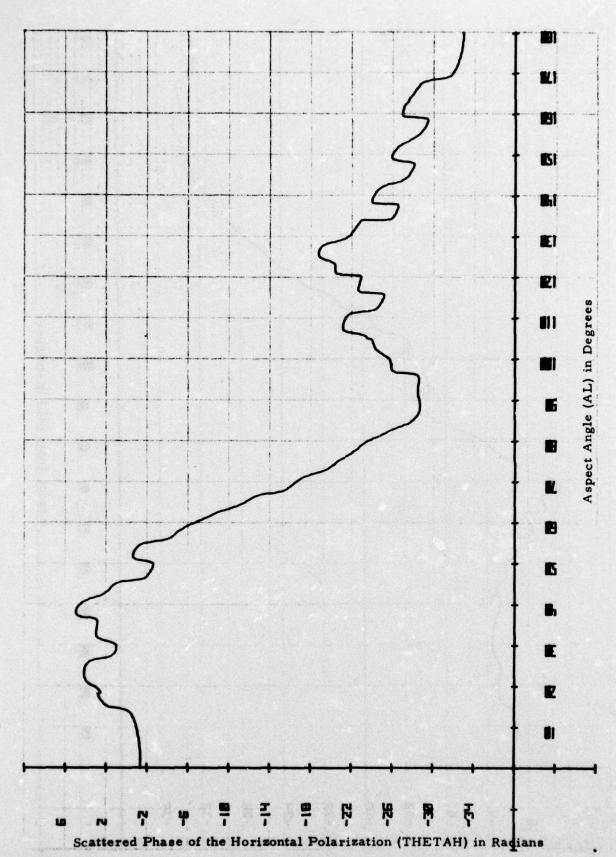
IV-199



IV-200



IV-201



IV-202

## F. FRUSTUM Program

## 1. Introduction

The FRUSTUM program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the Program GDT02 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the FRUSTUM program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular cylinder.

# 3. Computer Program Operating Environment

- a. Computer
  HIS 6000
- b. Source Language
  FORTRAN Y under GCOS
- c. Memory Requirement

  24K words
- d. Typical Processing Time Required

  0.0110 hours (39.6 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07, 08, 09, 10)

### f. Subroutines Used

Subroutines obtained from SXSA subroutine file:

UPDAT

BESS

GAM

PLTGDT

Subroutines obtained from SXSB subroutine file:

SPLN46

## 4. Inputs

The inputs which are needed for the executing of the FRUSTUM program are as follows:

Al - Smaller radius of frustum (inches)

A2 - Larger radius of frustum (inches)

H - half height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

BET - Azimuth bistatic angle (degrees)

#### Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAME-LIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the angle at which the target is viewed (BISTATIC),
- o vary the size of the frustum.

# 5. Output

Output from the FRUSTUM program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is,

file 07 contains the data of SV,

file 08 contains the data of SH,

file 09 contains the data of THETAV, and

file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

SV - the restant teller by the enter cross entitle the

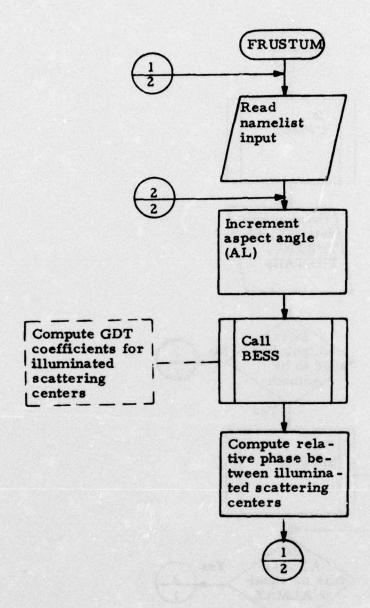
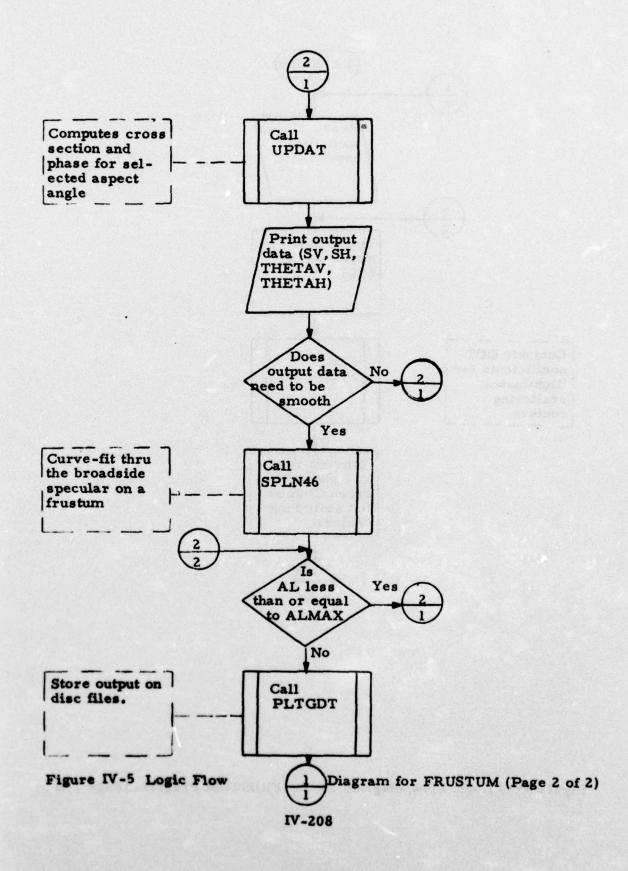


Figure IV-5 Logic Flow Diagram for the FRUSTUM Program (Page 1 of 2)



```
$
       IDENT
                CLEARY, NEUFFER , 65121104RADC
5
                CLEARYSTHREE
       USERID
5
       LØWLØAD
$
       ØPTIØN
                FØRTRAN
$
       SELECT
                CLEARY / ØFRUS
       SELECT
                CLEARY / ØXSA
       SELECT
                CLEARY / ØXSB
$
       EXECUTE
5
       LIMITS
                10,24K,,10K
                07. W. L. CLEARY/STØRE1
       PRMFL
       PRMFL
                08, W, L, CLEARY/STØRE2
       PRMFL
                09. W. L. CLEARY/STØRE3
       PRMFL
                10, W. L. CLEARY/STØRE4
                05
       DATA
 SINPUT
  A1=2.446,
  A2=3.16,
 H=2.0315.
  CLAM=2.0056.
  DELAL=0.1,
  ALMIN=0.0,
  ALMAX=180.0.
  AL=0.0,
 BET=10.25 $
       ENDJØB
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			x4765 OCSA			
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HIS-6000 Batch Submittal Form

Source Listing of the FRUSTUM Program

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                          COMMON/WAM/YY1128001. YY212000) YY31(2000), YY4(2000), XX(2000), II
COMPLEX EJR1. RERE, EJR2. EJR4. EJR5/EJR6. EJR7. EJR8. EJR9. EJR10.
X EJR41. EJR12: EBR3. EJR16. EJR15. EV. EVC. EN. EHC. RHSV. RHSN. RHSV.
                                                                                                                                                                                                                                                                                                                                                                           00001020
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                         X MSK.SSV.SSK.gJ%c

Bmal g1(9),B2(8);g3(9).gx(9).gr(90.cx(9).gu(9),g5(9),g6(9).

X B7(9).B6(9);B5(6).B1((9);B11(6),B12(9),DY(9),EY(8)

$AHELIST/INPUT#A4;A2.H.CLMH,DESAL,ALHIM,ALHAX,AL,BET
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       1001 FORHAT( 1H , 7815.4)
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       1002 FORRATINE
       2000 FORHAT (1H1, ///2/Egx, 'INPUTS - PRUSTUM',
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                          *77///29x. SHALSER REDIUS OF PROSTUM (A1) M ', F14.7.
*7//29x. LARGER REDIUS OF PROSTUM (A2) M ', F14.7.
*7//29x. HALF HEIGHT OF PROSTUM (A) - ', F14.7.
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    *///29x.'HALF HETERT OF FROSTUR (#1 = '.F14.7,

*///29x.'WAYE LEWETH IN THE HERE (CLAM) = '.F14.7,

*///29x.'THORESTER IN ASSECT ANGLE IN DEGREES (DELAL) = '.F14.7,

*///29x.'HINING SPECT ANGLE IN DEGREES (ALMIN) = '.F14.7,

*///29x.'ASPECT ANGLE IN DEGREES (ALMAX) = '.F14.7,

*///29x.'ASPECT ANGLE IN DEGREES (ALMAX) = '.F14.7,

*///29x.'SISTATEC ANGLE IN DEGREES (BET) = '.F14.7,

*///29x.'BISTATEC A
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AZ - LARGER REDIUS OF PRUSERM
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                                    BET - BISTATIC ENGLE (DEGREES)
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                      1 READ ( 05, INPUT, EN -999)
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                                WRITE(06,2000) A4, A2, H. CLAH, DELAL, ALHIM, ALMAX, AL, BET
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                               II = 0
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                                THETA-O.
                              $#¥2=0,
$##2=0,
$#£C1 = .0254*10854
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                                21-3114159265
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                                                                                                                                                                                                                                                                                                                                                                               JC01470
                                AS - (A2-A1)/(2.0%)
                                                                                                                                                                                                                                                                                                                                                                                JC01480
                                E = ATANTAS)
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                               DTR - PI/180'.
                                ETD - 180.772
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                                BELAL - DELAL.STE
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                        ALMIN & ALMINOSTA
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AL = AL OTA
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                        E115mx = BBY/2;

881=1,8=x/PI

882=1,5+x/PI

81 = PI/2.
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                        02 = $1/4.

03 = 2. *CK*A1

04 = 2. *CK*A2

05 = 2. *CK*H
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                        C6 = COS(PI/CHT)
E7 = SIN(PI/CHT)
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                                                                                                                                                                                                                                                                  00001710
                                                                                                                                                                                                                                                                   00001720
                  Es = COS($\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\f
                        to = cos(PI/cH2)
                                                                                                                                                                                                                                                                  00001736
                                                                                                                                                                                                                                                                  00001740
                                                                                                                                                                                                                                                                   00001758
                                                                                                                                                                                                                                                                  00001766
                                                                                                                                                                                                                                                                  00001770
                                                                                                                                                                                                                                                                  00001780
                                                                                                                                                                                                                                                                  00001799
                                                                                                                                                                                                                                                                  00001800
                                                                                                                                                                                                                                                                  00001810
                                                                                                                                                                                                                                                                  00001820
                                                                                                                                                                                                                                                                  00001830
                                                                                                                                                                                                                                                                  00001889
                                                                                                                                                                                                                                                                  00001850
                       CELSY # CBROADONELCY
                                                                                                                                                                                                                                                                  00001860
                        CELS2 = 10. *ALOG10 (CELST)
                                                                                                                                                                                                                                                                  00001870
                       EPLOT1 = CELS2
                                                                                                                                                                                                                                                                  00001880
                       CPLOT2 = CELS2
                                                                                                                                                                                                                                                                  00001690
  C
                                                                                                                                                                                                                                                                  00001900
                                                                                                                                                                                                                                                                  00001910
                      ATESTL = 0.05 BTR
                                                                                                                                                                                                                                                                  00001920
                        ALUP - 0. 1-DTR
                                                                                                                                                                                                                                                                  00001930
                       00 TO 95
                                                                                                                                                                                                                                                                  00001980
            10 II = II+1

IF (ABS(AL-ALBEGE), LE, ATESTL)

IF (ABS(AL-ALBEGE), LE, ATESTL)

IF (ABS(AL-ALBEGE), LE, ATESTL)

IF (ABS(AL-ALSTOF), LE, ATESTL)
                                                                                                                                                                                                                                                                  00001950
                                                                                                                                   ALBEGN = AL
                                                                                                                                                                                                                                                                  00001969
                                                                                                                                     ALSTON H AL
                                                                                                                                                                                                                                                                  00601970
                                                                                                                                                                                                                                                                  00001980
                       ET (ABS(AL-ALSTOF) LELATESTL)
                                                                                                                                 II2 = II
                                                                                                                                                                                                                                                                  0000199
                                                                                                                                                                                                                                                                  00002000
                       C13 = C4*SIN(AE)
C14 = C5*COS(AE)
                                                                                                                                                                                                                                                                  00002010
                                                                                                                                                                                                                                                                 00002020
                                                                                                                                                                                                                                                                 00002030
                        RHC = -C14
```

```
29427 01 09-26-75 18.764
                                                                                                                00002040
          CSRHC . COS(RHE)
                                                                                                                 00002050
          SURHC - SIN(RHE)
                                                                                                                 00002060
          BURC - CHPLX!CAREC. SHEHE!
         $50 = c4*costai)

27 (c12. 62. causc1) 60 75 20

27 (c12. 62. causc1) 60 75 20

215 = c5*a1*s087774

216 = (c7/cu1)*s5874a1/cK1

217 = (c9/cu2)*s6874a2/cK1
                                                                                                                 00002070
                                                                                                                 00002080
                                                                                                                 00002090
                                                                                                                 00002100
                                                                                                                 00002110
    CA182 = CK*A1

IF ( AL. EG. 01) GO TO $5

CCA181 = 1./SIE(AL)

CA18 = CCA181

IF ( CCA182=CCA181)

IF ( CCA182=CCA182)

CONTYNUE
                                                                                                                 00002120
                                                                                                                 00002130
                                                                                                                 00002140
                                                                                                                 00002150
                                                                                                                 00002160
                                                                                                                 00002170
                                                                                                                 00002180
                                                                                                                 00002190
     25 CONTINUE
    25 CONTINUE

619 = SQRT(CCA15)

6CA282 = CK*12

27 (AL. 20, 0.1 80 20 35

6CA251 = 1./8IN(AL)

6CA25 = CCA281

IF ( CCA252 = 6CA251) 35.35,45

35 6CA28 = CCA282

45 CONTINUE
                                                                                                                 00002200
                                                                                                                 00002210
                                                                                                                 00002220
                                                                                                                 00002230
                                                                                                                 00002240
                                                                                                                 00002250
                                                                                                                 00002260
                                                                                                                 00002270
         EZO = SORTICCAZST
DEDER = 1.
                                                                                                                 00002280
                                                                                                                 00002290
                                                                                                                 00002309
          CALL BESS (ORDER, C12, BS)
         614 = BS
624 = [1,7]Co=608([3,*92=2,*1,57CH2]))
623 = [1,7]Co=608([3,*92=2,*1,57CH2]))
623 = [1,7]Co=608([3,*92=2,*1,57CH2]))
                                                                                                                 00002310
                                                                                                                 00002320
                                                                                                                 00002330
                                                                                                                 00002340
          #28v = C17+C20+(821+C11)
         $25H = C17+C20+(621+C11)
$48V = C17+C20+(623+C11)
                                                                                                                 00002350
                                                                                                            00002360
         145H = c17*c20*(e23*c11)
                                                                                                                 00002370
                                                                                                                 00002380
                                                                                                                 00002390
         142 - -C14
143 - -C12+C2
                                                                                                                 00002400
                                                                                                                 00002410
         1H4 - - 1H3
                                                                                                                 00002420
          RHS - -RH2
                                                                                                                 00002430
          146 = -C13+C2
                                                                                                                 00002440
         RHT . ARHE
                                                                                                                 00002450
         CSRH4 = COS(RH4)
         SHRH4 = SIN(RH4)
CSRH2 = COS(RH2)
                                                                                                                 00002460
                                                                                                                 00002470
          SHRH2 = SIN(RH2)
                                                                                                                 00002480
                                                                                                                 00002490
         CSRH3 = COS(RH3)
SERHS = SIN(RHS)
                                                                                                                 00002508
                                                                                                                 00002510
          CSRNS - COS(RMS)
                                                                                                                 00002520
          SERNS - SIN(RES)
                                                                                                                 00002530
          CSRHS = COS(RHS)
          SURHS - SIN(RMS)
                                                                                                                 00002540
                                                                                                       00002550
          CSRH6 - COS(RH6)
```

```
29827 01 09-26-75 18.784
                        BUNKS + SIN(NKS)
CSRN7 - COS(RN7)
BURKT - SIN(RN7)
                                                                                                                                                                                                                                                                                    00002560
                                                                                                                                                                                                                                                                                    00002570
                                                                                                                                                                                                                                                                                    00002580
           00002590
                                                                                                                                                                                                                                                                                    00002608
                                                                                                                                                                                                                                                                                    00002610
                                                                                                                                                                                                                                                                                    00002628
                                                                                                                                                                                                                                                                                    00002639
                                                                                                                                                                                                                                                                                    00002640
                                                                                                                                                                                                                                                                                    00002650
                                                                                                                                                                                                                                                                                    00002668
                                                                                                                                                                                                                                                                                    00002679
                                                                                                                                                                                                                                                                                   00002688
                                                                                                                                                                                                                                                                                   00002490
                        00002710
                                                                                                                                                                                                                                                                                    00002720
                                                                                                                                                                                                                                                                                    00002730
                                                                                                                                                                                                                                                                                    00002740
                                                                                                                                                                                                                                                                                    00002750
          00 TO 50

20 EF (c13. Lg. CAMBC2) GO TO 40

224 = (C7*SQNT*AA*/(BIN(AL)*CR)))/CN1

225 = (C9*SQNT*AA*/(BIN(AL)*CR)))/CN2

226 = 1./(C6#C6#[fFI*2'.*AL)/CN1)

227 = 1./(C6#C6#[fFI*2'.*AL)/CN1)

228 = 1./(C6#C6#[fFI*2'.*AL)/CN1)

229 = 1./(C##C6#[f#BI*2'.*AL)/CN2)

40 TO 103
             00 TO 50
20 EF (C13. 1
                                                                                                                                                                                                                                                                                   00002760
                                                                                                                                                                                                                                                                                    00002770
                                                                                                                                                                                                                                                                                   00002780
                                                                                                                                                                                                                                                                                    00002799
                                                                                                                                                                                                                                                                                   00002808
                                                                                                                                                                                                                                                                                    00002819
                                                                                                                                                                                                                                                                                    00002828
                                                                                                                                                                                                                                                                                    00002830
                                                                                                                                                                                                                                                                                    00002840
          90 TO 103
101 E29 = 1./(c8#c6sf(3;+#1$22*A1)2c#2))
103 CONTINUE
                                                                                                                                                                                                                                                                                    00002850
                                                                                                                                                                                                                                                                                    00002860
                                                                                                                                                                                                                                                                                    00002870
                        #3157 = C24*(C$64C10)
#315H = C24*(C$68C16)
#3257 = C25*(C$72C1)
                                                                                                                                                                                                                                                                                   00002880
                                                                                                                                                                                                                                                                                    00002890
                                                                                                                                                                                                                                                                                    00002908
                         #825# = c25*1c27$c111
                                                                                                                                                                                                                                                                                    00002910
                       ### 123 | C23 | C24 | C44 | C4
                                                                                                                                                                                                                                                                                    00002920
                                                                                                                                                                                                                                                                                    00002930
                                                                                                                                                                                                                                                                                    00002940
                                                                                                                                                                                                                                                                                    00002950
                                                                                                                                                                                                                                                                                   00002960
             65 $3 TSY = 0.
                                                                                                                                                                                                                                                                                    00002970
                                                                                                                                                                                                                                                                                    00002980
                         RSISH . O.
             75 ZP(AL-CAL2) &5.195.175

85 BS2SV = 0.

$82SN = 0.
                                                                                                                                                                                                                                                                                    00002990
                                                                                                                                                                                                                                                                                    00003000
          175 EPTAL-CALS) 118, 415, 105
                                                                                                                                                                                                                                                                                    00003020
          105 RS3SY = 0.

RS3SH = 0.

115 TP | 1 = CALS; 135, 135, 125

125 EP | AL = CALS; 145, 135, 125
                                                                                                                                                                                                                                                                                    00003030
                                                                                                                                                                                                                                                                                    00003050
                                                                                                                                                                                                                                                                                    00003060
           145 RSUSY = Q.
                                                                                                                                                                                                                                                                                    00003070
```

```
29427 01 09-26-75 18,764
                                                                                           00003080
       BSASN . O.
  135 CONTINUE

$18 = -{C12+C16}6C2

$19 = -{C13-C16}6C2
                                                                                           00003090
                                                                                           00003100
                                                                                           00003110
       00003120
                                                                                           00003130
                                                                                           00003140
                                                                                           00003160
       00003170
                                                                                           00003140
                                                                                           00003190
                                                                                           00003200
                                                                                           00003210
                                                                                           00003230
                                                                                           00003240
                                                                                           00003250
                                                                                           00003260
                                                                                           00003270
                                                                                           00003240
        80 TO 50
   00003298
                                                                                           00003300
                                                                                           00003310
                                                                                           00003320
                                                                                           00003330
                                                                                           00003380
                                                                                           00003350
   153 CCAUS - CCAUS2
                                                                                           00003360
   165 CONTINUE
       831 . SORTICCAUST
                                                                                           00003378
                                                                                           00003380
        232 - C4+A2+8QETTFI+
       PROER = 1.
Call sussionpus, c13, ss)
                                                                                           00003390
                                                                                           00003409
                                                                                           00003410
        C33 - BS
       ## 12 - -CT
                                                                                           00003420
                                                                                           00003430
       113 = -013+02
114 = -113
                                                                                           00003440
                                                                                           00003450
       8815 = C14
       CSRH42 = COS (RH 15)

BHRH42 = SIN (RH 15)

CSRH43 = COS (RH 15)

SHRH43 = SIN (RH 15)
                                                                                           00003460
                                                                                           00003470
                                                                                           00003400
                                                                                           00003490
       CERNIA - COSTRET
                                                                                           00003500
       CERNI = COS (RE 15)
$KR44 = SIN (RE 15)
$KR45 = COS (RE 15)
$KR45 = SIN (RE 15)
$KR45 = SIN (RE 15)
$KR45 = CHPLX (CSR13.SHR43)
$KR45 = CHPLX (CSR13.SHR43)
$KR45 = CHPLX (CSR13.SHR43)
                                                                                           00003510
                                                                                           00003520
                                                                                           00003530
                                                                                           00003548
                                                                                           00003560
   ### 15 = CHPLX(@S##15.SHR#$5)

CBXOX2 = 0',5

XP (AL', EQ', PI $0 TO 185
                                                                                           00003570
                                                                                           00003580
                                                                                           00003590
```

```
29827 01 09-26-75 18.764
   188 CONTINUE
                                                                                                     00003609
                                                                                                    00003610
        87 = †C32°CBX0X8°EJR 124EJR 16-C30°C31°C11*EJR 15*(EJR 13*EJR 14))*
       x (mate)
                                                                                                    00003630
        $¥~~{C$2+CBX0X$+$JX42+BJX48+C$0+C$4+C4+BJX48+(BJX43+8JX4X)}
                                                                                                    00003640
                                                                                                    00003650
       X (EJRC)
                                                                                                     00003660
        60 TO 50
    50 SYC = CONJG(EY)
                                                                                                    00003670
                                                                                                    00003680
        #SY=EY+EYC
                                                                                                    00003690
        SHC=CONJO(ENT
        BEN-EN-ENC

RMV10ATAM2(AIMAGTEV+.BEALTEV))

EALL UPDAT(RMV1.ENV8.PICTETAV)

EMM10ATAM2(AIMAGTEM+.BEALTEM))

EALL UPDAT(RMM1.EMM8.PICTETAM)

EELLSV = REALTERN)

EELLSV = REALTERN)

EELSV10REALSV0EEC1

EELSV10REALSV0EEC1

EELSV10 = REALTERN (EELSV1)

EELSV1 = REALTERN (EELSV1)

EELSV1 = REALTERN (EELSV1)

EELSV1 = REALTERN (EELSV1)
         BRH-EN-ENC
                                                                                                    00003700
                                                                                                    00003710
                                                                                                    00003720
                                                                                                    00003730
                                                                                                    00003789
                                                                                                    00003750
                                                                                                    00003760
                                                                                                    00003770
                                                                                                    00003780
                                                                                                    00003799
                                                                                                     00003.00
                                                                                                     00003810
         AL-RTD.AL
        WATTE (6,2002) ALT ABLEVZ. ABLEBZ. THETAY. THETAN
TYT(II) - ABLEVZ
TYZ(II) - ABLEBZ
                                                                                                    00003820
                                                                                                    00003840
        TYG(II) - THETAY
                                                                                                    00003450
                                                                                                     00003860
                                                                                                    00003870
        EXIII) = AL
        AL - ALOUTE
                                                                                                    00003880
        EP (ABS(AL-ALSTOF).GT.ATESTL) GO TO 300
                                                                                                     00003890
                                                                                                    00003900
        Ic - III
        CCT - ALBRON
                                                                                                    00003910
        11 - 1
                                                                                                    00003920
                                                                                                    00003930
        1C2 - II2-3
         CC2 - ALBEDPOS: PELDP
                                                                                                    00003980
        80 301 I = 1.4
81(1) = CC1+RTS
                                                                                                    00003950
                                                                                                    00003960
                                                                                                    00003980
        BY(I)= TY1(IC)
        DY(I) - TY3(IC)
                                                                                                    00003990
                                                                                                     00004000
         BYITT # TTUITES
                                                                                                     00004010
        IC - IC+1
         CCT - ALUSTCC1
                                                                                                     00004020
                                                                                                     00004030
   301 CONTINUE
         $2|51 = |P2/2.4x1+870
                                                                                                      3004040
                                                                                                     00004050
         BY(5)= CFLOT1
         ETTST . CPLOT2
                                                                                                     00004060
                                                                                                    00004070
        DO 302 I = 6.9
Sx(I) = CC2*8TD
                                                                                                    00004080
         BY(I) - YY1(IC26
                                                                                                    00004090
        CT(I) - YY2(IC2)
                                                                                                    00004109
                                                                                                    00004110
```

## 29422 01 09-26-75 18.766 37(I) - Y74(IC2) 00004120 00004130 00004140 CC2 - CC2+ALUP 302 CONTINUE ST(5) = (BY(4))EF(6)/2 ST(5) = (BY(4))EF(6)/2 TF (INDIC.EQ.0) #0 TO 383 ORITE (6.2003) (BX(20).1001.9); (BY(200).200#1.9) 343 ZF = ALBERT • HT OCCUPATION 0000#3#Q 0000#35Q 0000#36Q 173(I) - 753 #\$ - ##+eccc4 00004430 00 TO 1 00004440 00004450 00004460 00004470 00004480 00004490 00004510 S CONTINUE TRITE(6, 2001) THETAY O, THETAN - O'. BO TO 10 999 CONTINUE SHOP

Sample Input for the FRUSTUM Program as Output

proposition of the control of the following the control of the control of

NE A COMPLETE OF STORE TO INCA

## INPUTS - PRUSTUM

SMALLER RADIUS OF FRUSTUM (A1) = 2.4460000

LARGER RADIUS OF FRUSTUM (A2) = 3.1660000

HALF MEIGHT OF FRUSTUM (H) = 2.0315000

WAVE LENGTH IN INCHES (CLAM) = 2.0056000

INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 0.1000000

HINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

HAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 180.0000000

ASPECT ANGLE IN DEGREES (AL) = 0.

BISTATIC ANGLE IN DEGREES (BET) = 10.2500000

Sample Output for the FRUSTUM Program

43.

AL SV(DBSM) SH(BBSM) T	HETAV	THETAH	
	-1.756	-1.935	
	-1.755	-1.939	
	-1.754	-1.943	
	-1.753	-1.947	
	-1.752	-1.951	the title of a particle is an incident on a constraint of the set of
	-1.750	-1.954	
	-1.749	-1.958	
	-1.748	-1.961	
	-1.746	-1.963	
	-1.745	-1.966	
	-1.743		
	-1.742	-1.971	
	-1.740	-1.973	A CONTRACTOR OF THE PROPERTY O
	-1.738	-1.974	
	-1.737		
	-1.735	-1.977	
	-1.733	-1.978	
	-1.731	-1.979	
1.80-1.75E 00-1.30E 00	-1.729	-1.980	
1.90-1.77E 00-1.33E 00	-1.727	-1.980	
	-1.725	-1.980	
	-1.723	-1.980	
	-1.721	-1.980	A STATE OF THE STA
	-1.719	-1.979	
	-1.716	-1.979	
	-1.714	-1.978	
	-1.712	-1.976	
	-1.799	-1.975	
그 사람들은 사람들이 되었다. 이 사람들이 아니는 아니는 이 사람들이 얼마나 나는 사람들이 아니는 아니는 아니는 사람들이 되었다.	-1.707	-1.973	
	-1.704	-1.971	
	-1.7)2	-1.969	
	-1.699	-1.967	
	-1.696 -1.694	-1.964	
	-1.691	-1.958	
	-1.688	-1.954	
	-1.685	-1.950	
	-1.682	-1.946	
		-1.942	
	-1.676	-1.937	
	-1.673	-1.933	A stage of the control of the contro
	-1.670	-1.927	
	-1.667	-1.922	
	-1.664	-1.916	
	-1.660		
	-1.657	-1.904	
	-1.654	-1:897	e destruction and the second of the second o
	-1.651	-1.890	
	-1.647		
4.90-3.42E 00-3.17E 00	-1.644	-1.876	
	-1.640	-1.868	
5.10-3.59E 00-3.37E 00	-1.637	-1.859	
	-1.633	-1.851	
	-1.629	-1.842	THE SECOND STREET, THE SECOND STREET, THE SECOND STREET, SECOND ST
	-1.626	-1.833	
	-1.622	-1.823 -1.813	IV-222
5.60-4.04E 00-3.89E 00	-1.618	-1.803	
5.70-4.14E 00-4.01E 00	-1.615	-1.003	

e v

```
-1:792
-1:781
                         -1.611
5,86-4.24E 00-4.12E 00
                         -1.607
5.98-4.34E 00-4.24E 00
                                  -1.769
6.00-4.45E ng-4.36E 00
                         -1.603
6.18-4.55E ng-4.47E UD
                                  -1.757
                         -1.599
                                  -1.744
                         -1.595
6.28-4.66E ng-4.57E 00
6.30-4.77E ng-4.72E 00
                         -1.592
                                  -1.731
                         -1.588
6.40-4.88E ng-4.54E 00
                                  -1.718
                                  -1.705
                         -1.584
6.50-5.00E no-4.97E 00
                         -1.580
                                  -1.692
6.66-5.11E 00-5.09E 00
                         -1.576
                                  -1.678
6.70-5.23E 00-5.22E 00
                          -1.572
                                  -1.064
6.88-5.35E ng-9.39E 00
6.98-5.48E ng-5.48E 00
                                  -1.650
                         -1.567
                         -1.563
                                  -1.635
7.00-5.60E 00-5.51E 00
                          -1.559
                                  -1.620
7.10-5.73E 00-5.74E 00
7.20-5.86E ng-5.87E 00
                          -1.555
                                  -1.605
                                  -1.590
                          -1.551
7.30-6.00E 00-6.01E 00
                          -1.547
7.40-6.13E ng-6.14E 00
                                  -1.574
                                  -1.558
7.50-6.27E ng-6.28= 00
                          -1.543
7.60-6.41E 00-6.42E 00
                                  -1.542
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27.60=2.73E 01-2.89E 01 -3.733 -9.360	PROSERVE TO SECURE A SECURITOR OF THE SECURITION OF THE SECURITIES.
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	7.343	8.699	
	7.341	8.707	
	7.339	8.713	
	7.337	8.718	The same of the sa
	7.335	8.721	And the second s
	7.332	8.721	
	7.330	8.719	the gar magazine plant has the state of the control
	7.327	8.713	With the constant of the const
	7.325	8.704	
109.10-2.966 01-3.326 01	7.322	8,690	Bas at the contract of the con
	7.320	8.672	There is not the common there are the common and th
	7.318	8.648	
	7.316	8.617	The state of the s
	7.315	8,578	
	7.313	8.531	
	7.313	8.473	
	7.312	8.405	The first the state of the stat
	7.312	8.324	
	7.313	8.233	year planted a serior made with the law for a profession and a consistency of the serior of the seri
	7.314	8.132	The Wall of Land of the Control of t
	7.315	8.024	
	7.317	7.913	
	7.319	7.805	
	7.322	7,703	New York Control of the Control of t
	7.326	7.610	
	7,330	7.528	
	7.334	7,457	
	7.340	7.397	
	7.345	7.348	A. P. C.
	7.352		
		7.274	with the control of t
	7.366	7.248	Marie Edition of Street Street
	7.373	7.227	Control of the Contro
	7.382	7.211	
	7.391	7.199	
	7.400	7.191	
	7.410	7.186	
	7.420	7.184	
	7.431	7.183	
	7.442	7.185	The state of the s
	7.453	7.188	supplied to the supplied to th
	7.465	7.193	
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160.90-2.09E 01-2.33E 01	19.945	8.403	Survey Andrew Control Control Control
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164.60-1.476 01-1.586 01	20.489	7.689	
164.70-1.47E 01-1.57E 01	20.509	7.670	AN BALLETIN BENEFICE TO THE
164.80-1.476 01-1.576 01	20.519	7.661	Designation of the state of the
164.90-1.476 01-1.566 01	20.530	7.651	
165,00-1.47E 01-1.48E U1	20.540	7.802	到10. 自然是一种产品,是2000年,10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
165.10-1.486 01-1.485 01	20.990	7.797 -	
165.20-1.48E 01-1.49E U1	20.561	7.793	
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165.40-1.49E 01-1.5 E 01	20.583	7.783	DO THE STATE OF TH
165.50-1.50E 01-1.51E 01	20.594	7.778	Du 251.0-03 393.0-03.259
165.60-1.51E 01-1.32E U1	20.606	7.773	TO THE THE PARTY OF THE PERSON
165.70-1.52E 01-1.53E 01	20.618	7.767	AST 医皮肤 17 中国的 18 产品 19 产品 17 产品
165.80-1.53E 01-1.54E 01	20.630	7.762	
165.90-1.54E 01-1.56E 01	20.643	7.756	\$6 是你们以有什么你 自然的。"中国家心家学生一个一
166.00-1.55E 01-1.57E 01	20.656	7.750	IV-249
166.10-1.57E 01-1.59E 01	20.670	7,743	an lie ango doe, anal day
166.20-1.58E 01-1.61E 01	20.685	7.737	o des engo des anse, en
166.30-1.60E 01-1.53E 01	20.711	7.729	19 英学生,也不能过一般可见,在中心在上在生产。

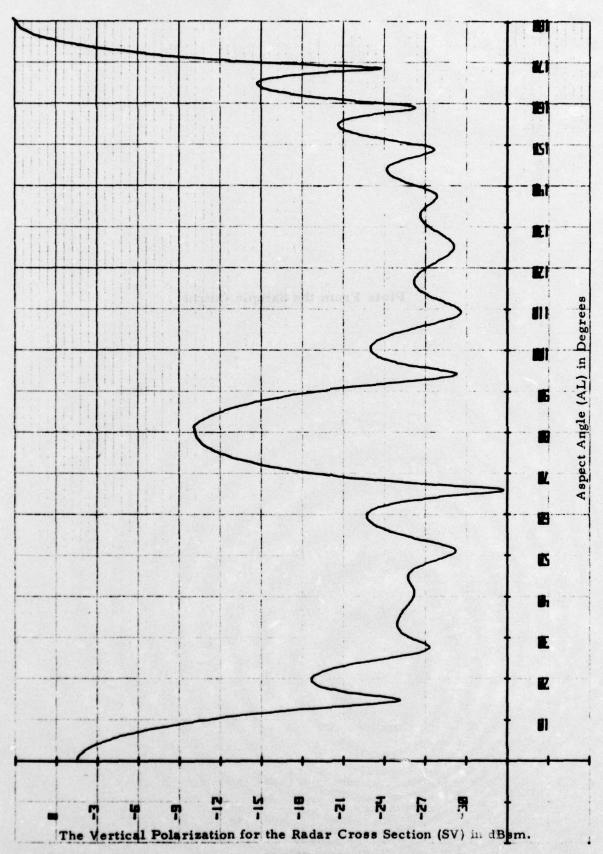
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                           21.718
                                     7.564
                                     7.535
167.60-2.01E 01-2.16E 01
                           21.067
167.70-2.06E 01-2.24E U1
                                     7.499
                           21.123
167.80-2.11E 01-2.33E 01
                                     7,454
                           21.187
167.90-2.16E 01-2.42E 01
                                     7.399
                           21.261
168.00-2.22E 01-2.53E 01
                           21.346
                                     7.326
168.10-2.27E 01-2.65E 01
                           21.444
                                     7.230
168.20-2.31E 01-2.79E 01
                           21.557
                                     7.097
                                     6.911
168.30-2.35E 01-2.92E 01
                           21.683
                           21.822
                                     6.654
168.40-2.37E 01-3.04E 01
                           21.971
168.50-2.38E 01-3.09E U1
                                     6.330
168.60-2.37E 01-3.05E 01
                                     5.992
                           22.122
168.70-2.34E 01-2.93E 01
                           22.271
                                     5.704
168.80-2.29E 01-2.78E 01
                           22.411
                                     5.490
168.90-2.24E 01-2.52E U1
                           22.538
                                     5.338
169.00-2.17E 01-2.47E U1
                           22.651
                                     5.228
169.10-2.10E 01-2.34E 01
                           22.750
                                     5.147
169.20-2.02E 01-2.21E 01
                                     5.085
                           22.836
169.30-1.95E 01-2.10E 01
                                     5.037
                           22.910
169.40-1.87E 01-2.00E 01
                           22:974
                                     4.998
169.50-1.80E 01-1.90E U1
                           23.030
                                     4.966
169.60-1.73E 01-1.52E 01
                                     4.940
                           23.078
                                     4.917
169.70-1.67E 01-1.73E 01
                           23.121
169.80-1.60E 01-1.56E 01
                           23.159
                                     4,898
169.90-1.54E 01-1.59E U1
                           23.192
                                     4.882
170.00-1.48E 01-1.52E 01
                           23.222
                                     4.867
170.10-1.43E 01-1.46E U1
                           23.249
                                     4.854
170.20-1.37E 01-1.40E 01
                           23.273
                                     4.843
170.30-1.32E 01-1.34E 01
                           23.295
                                     4.832
170.40-1.27E U1-1.29E U1
                           23.315
                                     4.823
170.50-1.22E 01-1.24E 01
                           23.334
                                     4.815
170.60-1.18E F1-1.19E 01
                           23,351
                                     4.807
170.70-1.13E 01-1.14E U1
                           23.366
                                     4.800
170.80-1.09E 01-1.10E 01
                           23.381
                                     4.793
170.90-1.05E 01-1.06E 01
                                     4.787
                           23.394
                           23.477
171.00-1.01E 01-1.02E 01
                                     4.781
171.10-9.69E 00-9.76E UD
                           23.419
                                     4.776
171.20-9.32E 00-9.38E 00
                                     4.771
                           23.430
171.30-8.96E 00-9.02E 00
                           23.440
                                     4.767
171.48-8.62E PO-8.56E DO
                           23.450
                                     4.762
171.50-8.29E 00-8.325 UO
                           23.459
                                     4.758
171.60-7.96E 00-7.99E 00
                           23.468
                                     4.754
171.70-7.65E 00-7.68E 00
                                     4.751
                           23.476
171.80-7.39E 00-7.37E 00
                                     4.747
                           23.484
171.00-7.06E 00-7.07E UO
                           23.491
                                     4.744
172.00-6.77E 00-6.79E
                           23.498
                                     4.741
                       UO
                           23.505
                                     4.738
172.10-6.50E 00-6.51E 00
                                     4.735
172.20-6.24E 00-6.24E UO
                           23.512
172.30-5.98E 00-5.99E UO
                           23.518
                                     4.732
```

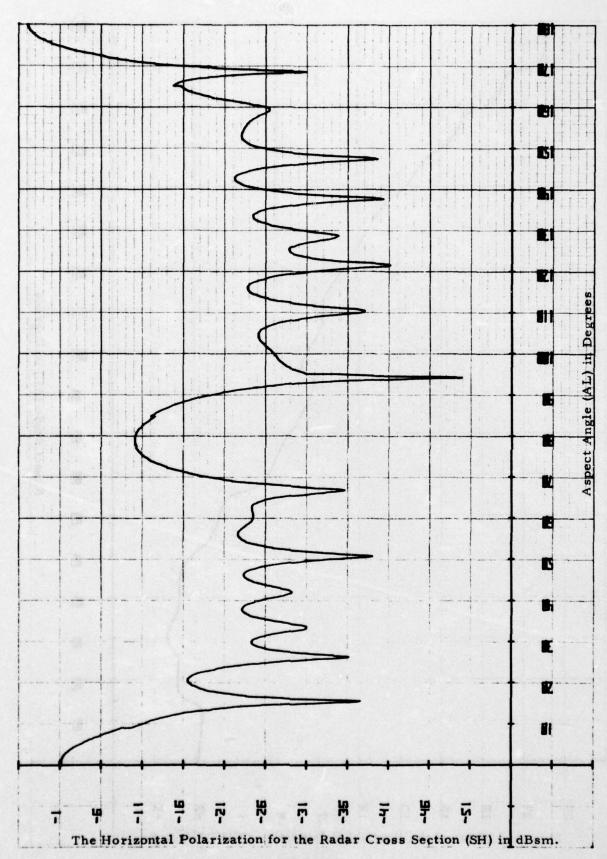
```
4.729
172.40-5.73E 00-5.74E 00
                            23.524
172.50-5.49E 00-5.50E 00
                            23.530
172.60-5.26E ng-5.26E 00
                            23.535
                                     4.724
172,70-5.04E 00-5.04E 00
                            23.541
                                      4.722
172,80-4.82E
              00-4.52E 00
                            23.546
                                      4.720
172.90-4.61E 00-4.51E 00
                            23.551
                                      4.717
173.00-4.34E 00-4.34E 00
                            23.557
                                      4.717
173-10-4.10E 00-4.10E 00
                            23.561
                                      4.714
173.20-3.86E ng-3.86E no
                            23.564
                                      4.710
173.30-3.63E 00-3.63E 00
                            23.567
                                     4.707
173.46-3.41E 00-3.41E 00
                            23.570
                                      4.704
173.56-3.19E 00-3.19E 00
                            23.573
                                      4.701
173.68-2.98E 00-2.98E 00
                            23.576
                                     4.699
173.70-2.77E 00-2.77E 00
                            23.578
                                      4.696
173.80-2.56E 00-2.56E 00
                            23.581
                                     4.693
173.00-2.37E 00-2.37E 00
                            23.583
                                     4.691
174.08-2.17E 00-2.17E
                            23.586
                       00
                                     4.688
174.16-1.98E 00-1.98E 00
                            23.588
                                     4.686
174.26-1.80E CO-1.50E 00
                            23.590
                                     4.684
                            23.592
174.30-1.62E 00-1.52E 00
                                     4.682
174.40-1.45E 00-1.45E 00
                            23.594
                                     4.680
174.50-1.28E 00-1.28E 00
                            23.596
                                     4.678
174.60-1.11E 00-1.11E 00
                           23.597
                                     4.677
174.70-9.48E-01-9.48E-01
                            23.599
                                     4.675
174.80-7.90E-01-7.90E-01
                            23.600
                                     4.674
                                     4.673
174.90-6.36E-01-6.36E-01
                            23.602
175.00-4.86E-01-4.56E-01
                            23.603
                                     4,671
175.10-3.41E-01-3.41E-01
                                     4.670
                            23,604
179.20-1.99E-01-1.99E-01
                            23,605
                                     4.669
175.30-6.03E-02-6.03E-02
                            23.606
                                     4.668
175.40 7.43E-02 7.43E-02
                            23.607
                                     4.667
175.50 2.05E-01 2.05E-01
                            23,608
                                     4.666
175.60 3.33E-01 3.33E-01
                            23.609
                                     4.666
175.70 4.57E-01 4.57E-01
                            23.610
                                     4,665
175.80 5.772-01 5.772-01
                                     4.664
                            23,610
175,90 6.94E-01 6.94E-01
                            23.611
                                     4.664
176.00 8.08E-01 8.08E-01
                            23.611
                                      4.663
176,10 9.18E-01 9.18E-01
                            23.612
                                     4.663
176.20 1.02E 00 1.02E 00
                                     4.662
                            23.612
176.30 1.13E no
                1.13E UO
                            23.613
                                     4.662
176.00 1.23E 00 1.23E 00
                           23.613
                                     4.662
176.50 1.33E 00 1.33E
                                     4.661
                       00
                            23.613
176.60 1.42E CQ 1.42E 00
                            23.613
                                     4.661
176.70 1.51E 00 1.51E 00
                            23.613
                                     4.661
176,80 1.60E DO 1.50E DO
                            23.613
                                     4.661
176.90 1.69E 00 1.69E UO
                            23.614
                                     4.661
177.00 1.77E
             00 1.77E 00
                            23.614
                                     4.661
             00 1.95E 00
177.10 1.85E
                            23.613
                                     4.661
177.20
       1.92E
                1.92E
             00
                            23.613
                                     4,661
                       00
177.30 2.00E
                2.00E
                            23.613
                                     4.661
             00
                       00
177.40 2.07E 00
                2.075
                            23.613
                                     4.661
                       DO
177.50 2.13E CO
                2.13E UO
                                     4.662
                            23.613
177.60 2.20E
                                     4.662
             UU
                 2.20E 00
                            23.612
177.70 2.26E
                2.26E UO
                            23.612
                                     4.662
             00
177.80 2.32E
              00 2.32E 00
                            23.612
                                     4.663
177.90 2.38E
             00
                2.38E 00
                                     4.663
                            23.611
178.00 2.43E 10 2.43E 00
                                     4,663
                            23.611
                                              IV-251
178.10 2.48E 00 2.48E UO
                            23.610
                                     4.664
178.20 2.53E 00 2.33E 00
                            23.610
                                     4.664
```

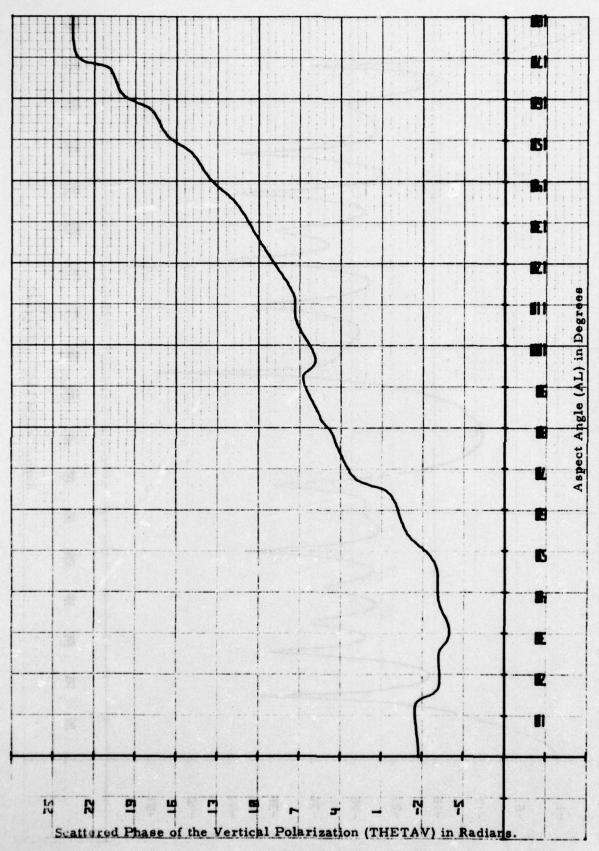
178.30 2.58E 00 2.58E 00 178.40 2.62E 00 2.62E 00	23.609	4.665
178.40 2.62E 00 2.62E 00	23.609	4.666
178.60 2.60E 00 2.66E 00	23.608	4.667
178.70 2.73E 00 2.73E 00	23.607	4.668
78.86 2.76E 00 2.76E 00	23.606	4.668
178.98 2.79E UQ 2.79E UU	23.605	4.669
79.00 2.82E 00 2.82E 00		4.670
79-10 2.84E 00 2.84E 00		4.671
179.20 2.86E 00 2.86E 00	23.603	4.672
79.46 2.90E 00 2.90E U0	23.602	4.673
79.50 2.91E 00 2.91E 00	23.600	4.674
79.60 2.92E 00 2.92E 00		4.675
79.70 2.93E 00 2.93E 00	23.598	4.676
79.80 2.94E 00 2.94E 00		4,677
79.98 2.94E 00 2.94E 00		4.678
80.00 2.94E ng 2.94E 00	23.595	4.680
	Stave	\$2.80 \$2.00 \$ n = \$2.00 x \$2.00 x \$2.00 \$2
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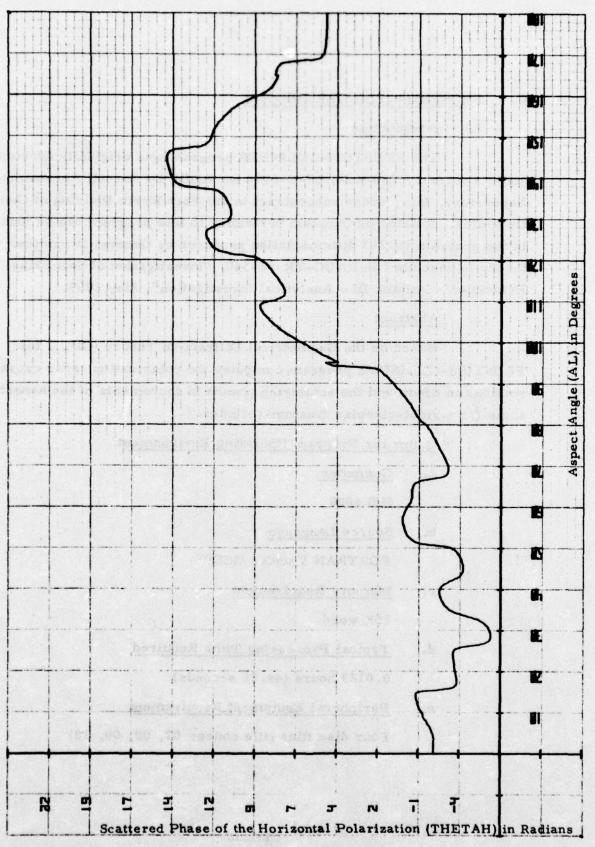
接 1.18 1.00 福 134 138 Plots From the Sample Output 110 额 额 78 機 施 墨 18 The Verrices Polarinetion for the State Chart State State Charter Chart IV-253







IV-256



IV-257

## G. FRUSTUM-CYLINDER Program

### 1. Introduction

The FRUSTUM-CYLINDER program was originally developed under Contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the program GDT03 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

#### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the FRUSTUM-CYLINDER program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular frustum-cylinder.

## 3. Computer Program Operating Environment

- a. <u>Computer</u> HIS 6000
- b. Source Language
  FORTRAN Y under GCOS
- c. Memory Requirement
  25K words
- d. Typical Processing Time Required

  0.0123 hours (44.28 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07, 08, 09, 10)

## f. Subroutines Used

Subroutines obtained from SXSA subroutine file:

UPDAT

BESS

GAM

PLTGDT

Subroutines obtained from SXSB subroutine file:

SPLN46

## 4. Inputs

The inputs which are needed for the executing of the FRUSTUM-CYLINDER program are as follows:

Al - Smaller radius of frustum (inches)

A2 - Larger radius of frustum (inches)

H1 - Full height of frustum (inches)

H2 - Full height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

BET - Azimuth bistatic angle (degrees)

#### Input Format

The above inputs are entered into the program through the NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

variable 1 name = (value),
variable 2 name = (value),
:
:
variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the angle at which the target is viewed (BISTATIC),
- o vary the size of the cylinder.

## 5. Output

Output from the FRUSTUM-CYLINDER program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is, file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

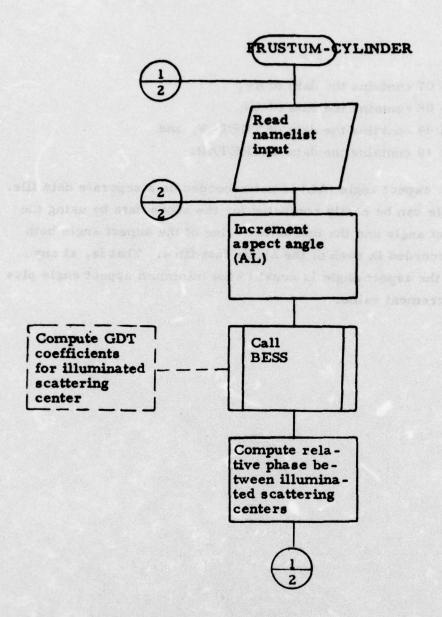
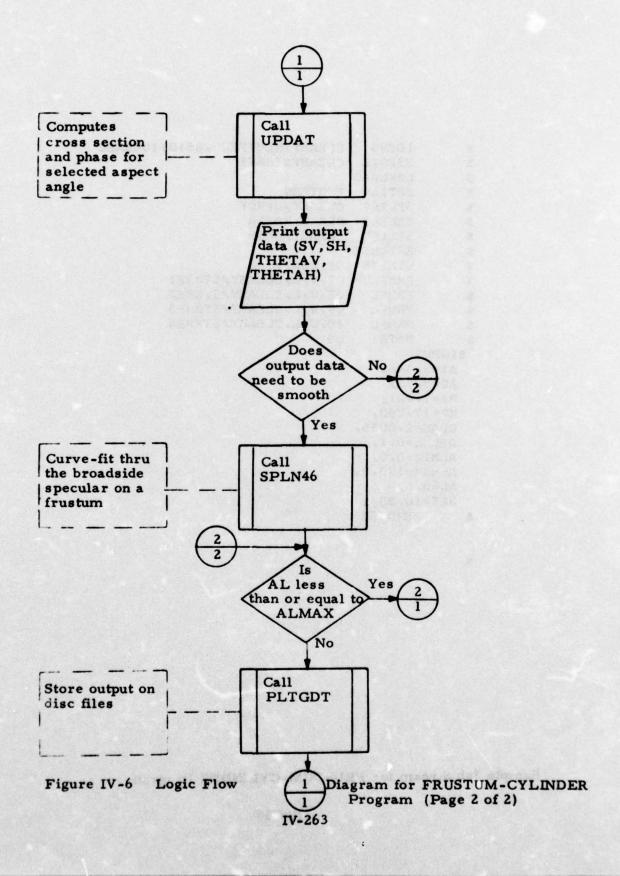


Figure IV-6 Logic Flow Diagram for the FRUSTUM-CYLINDER Program
(Page 1 of 2)



```
5
       IDENT
                CLEARY, NEUFFER , 65121104RADC
$
       USERID
               CLEARYSTHREE
       LØWLØAD
5
5
       ØPTI ØN
               FØRTRAN
       SELECT
               CLEARY/ØFRCY
       SELECT
               CLEARY / 0XSA
               CLEARY / ØXSB
$
       SELECT
      EXECUTE
$
       LIMITS
               05,25K,,10K
5
       PRMFL
               07. W. L. CLEARY/STØREI
$
                08, W. L. CLEARY/STØRE2
       PRMFL
$
       PRMFL
               09, W. L. CLEARY/STØRE3
5
               10, W. L. CLEARY/STØRE4
$
       PRMFL
       DATA
               05
SINPUT
 A1=2.446,
 A2=3.75,
 H1=7.421.
 H2=17.260,
 CLAM=2.0056.
 DELAL=0.1.
  ALMIN=0.0,
 ALMAX=180.0.
 AL=0.0,
 BET=10.25 $
       ENDJØB
```

	RADC 6	35/64	BATC	1 10	)B
	BER		DATE		TIME
			9/9/	75	1000
PROGRAMME	ER		TELEPH		
NEUFF	NEUFFER		x475	3	
RADC ENGIN	HEER		TELEPH	ONE	SYMBOL
CLEAR	Y		x4765		OCSA
	TA	PES AS	SIGNED		
REEL NO	WRITE	REAL	DEN.		TITLE
NONE					
	-				
		Tary.			
PERIPHERA READER	•	6	DRUM	OF L	PUNCH
CORE SIZE	25K		ACTIVIT	IES	
PROCESSOR	TIME .	05	ESTIMAT	EDI	-INES OF
TOTAL RUN TIME . 05			PRINT		10K
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ВМС		TAPE DUMP COPY			
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HIS-6000 Batch Submittal Form

Source Listing of the FRUSTUM-CYLINDER Program

```
PROGRAM FRUSTUM CYLINDER (SPRCY)
                                                                                                                           00001000
                                                                                                                          00001010
                                                                                                                          00001020
         COMMON/NAM/YY1(200), YY2(2000), YY3(2000), YY4(2000), XX(2000), II
                                                                                                                           00001030
         COMPLEX EJR1.EJR2.EJR3.EJR4,EJR5.EJR6.EJRAN, RMANSV.RMANSH,
                                                                                                                          00001040
        X RNANSV, RNANSH, EGRB, RMSBV, RMSBH, RNSBV, RNSBH, EJRAT, RMATSV, RMATSH,
                                                                                                                          00001050
        X RNATSV, RNATSH, ZV, ZH, ZVC, ZHC, SSV, SSH, EJPR

REAL B1(9), B2(9), B3(9), BX(9), BY(9), CY(9), B4(9), B5(9), B6(9),

X B7(9), B8(9), B9(9), B10(9), B11(9), B12(9), DY(9), EY(9)
                                                                                                                          00001060
                                                                                                                          00001070
                                                                                                                          00001080
          WAMELIST/INPUT/A1, A2. H1, H2, CLAM, DELAL, ALMIN, ALMAX, AL, BET
                                                                                                                          00001090
  1001 FORMAT(1H .7g15,8)
                                                                                                                          00001100
 1001 FORMAT(1H .7E15,8)

2000 FORMAT(1H1.////@gx.'INPUTS - FRUSTUM CYLINDER',

*///29x.'SMALLER RADIUS OF FRUSTUM (A1) = ',F14.7,

*//29x.'LARGER RADIUS OF FRUSTUM (A2) = ',F14.7,

*//29x.'FULL HEIGHT OF FRUSTUM (H1) = ',F14.7,

*//29x.'FULL HEIGHT OF CYLINDER (H2) = ',F14.7,

*//29x.'WAVE LENGHT (CLAM) = ',F14.7,

*//29x.'INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = ',F14.7,

*//29x.'MINIMUM ESPECT ANGLE IN DEGREES (ALMIN) = ',F14.7,
                                                                                                                          00001110
                                                                                                                          00001120
                                                                                                                          00001130
                                                                                                                          00001140
                                                                                                                          00001150
                                                                                                                          00001160
                                                                                                                          00001170
 *//29x, MINIMUM ASPECT ANGLE IN DEGREES (DELAL) = ".F14.7,

*//29x, MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = '.F14.7,

*//29x, MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = '.F14.7,

*//29x, ASPECT ANGLE IN DEGREES (AL) = '.F14.7,

*//29x, BISTATIC ANGLE IN DEGREES (BET) = '.F14.7,/1H1)

2001 FORMAT(3x, AL', 3x, SV(DBSM)', 1x, SH(DBSM)', 2x,

**THETAV', 2x, THETAH', //)

2002 FORMAT(1x, T7.2, 152.79, 2, OP2.83)
                                                                                                                          00001180
                                                                                                                          00001190
                                                                                                                          00001195
                                                                                                                          00001200
                                                                                                                          00001210
                                                                                                                          00001220
                                                                                                                          00001230
 2002 FORMAT( 1x, F7, 2, 1P2E9, 2, 0P2F8, 3)
                                                                                                                          00001240
                                                                                                                          00001250
                                                                                                                          00001260
C
                                                                                                                          00001270
C
                  INPUT - NAMELIST -INPUT
                                                                                                                          00001280
          A1 = SMALLER RADIUS OF FRUSTUM
                                                                                                                          00001290
            A2 = LARGER RADIUS OF FRUSTUM
H1 = FULL HEIGHT OF FRUSTUM
H2 = FULL HEIGHT OF CYLINDER
                                                                                                                          00001300
C
                                                                                                                          00001310
                                                                                                                          00001320
               CLAM = WAVELENGTH
                                                                                                                          00001330
C
                                                                                                                          00001340
    DELAL INCREMENT IN ASPECT ANGLE (DEGREES)
C
       ALMIN = MINIMUM ASPECT ANGLE (DEGREES)
ALMAX = MAXIMUM ASPECT ANGLE (DEGREES)
                                                                                                                          00001350
C
                                                                                                                          00001360
             AL= ASPECT ANGLE (DEGREES)
                                                                                                                          00001370
C
         BET = BISTATIC ANGLE (DEGREES)
                                                                                                                          00001380
                                                                                                                          00001390
                                                                                                                          00001400
       1 READ(OS, INPUT, END=999)
          WRITE(06, 2000) A1, A2, H1, H2, CLAM, DELAL, ALMIN, ALMAX, AL, BET
                                                                                                                          00001410
                                                                                                                          00001420
          II = 0
          THETA = 0.
                                                                                                                          00001430
          RHV2 = 0.
                                                                                                                          00001440
                                                                                                                          00001450
          RHH2 = 0.
          RELC1 = .0254*.0254
                                                                                                                          00001460
          PI = 3.14159265
                                                                                                                          00001470
                                                                                                                          00001480
          A2A1 =(A2 - A1)/H1
         X=ATAN(A2A1)
                                                                                                                          00001490
                                                                                                                          00001500
         DTR = PI/180.
```

```
00001510
 110 - 180./PI
 DELAL - DELAL DIE
                                                                                                               00001520
 ALMIN - ALMIN DIE
                                                                                                               00001530
 ALMAX = ALMAX*DTR
AL = AL*DTR
                                                                                                               00001540
                                                                                                               00001550
 BET - BET DTR
                                                                                                               00001560
 HBET = BET/2'.
CK = 2. PI-COS(HBET)/CLAH
                                                                                                               00001570
                                                                                                               00001580
                                                                                                               00001590
 110 - 1.5-x/91
                                                                                                               00001600
 CH2 = 1. +X/PI
CH3 = 1.5
PIMXF = PI-X
                                                                                                               00001610
                                                                                                               00001630
                                                                                                               00001640
 C1 = PI/2.
 62 = PI/4.
63 = 2. CK-A1
                                                                                                               00001690
 C4 = 2, +CK+A2
 C5 = 2. *CK*H1

C6 = 2. *CK*H2

C7 = COS(PI/CN1)
                                                                                                               00001680
                                                                                                               00001690
                                                                                                               00001700
 Ca = SIN(PI/CN1)
Cq = COS(PI/CN2)
C10 = SIN(PI/CN2)
C11 = COS(PI/CN3)
                                                                                                               00001720
                                                                                                               00001730
                                                                                                               00001740
 C12 = SIN(PI/CH31
C13 = 1./(C7-COS[BET/CN1)]
                                                                                                               00001750
                                                                                                               00001760
 c14 = 1./(c9-cos[BET/cN2)]

c15 = 1./(c11-c08(BET/cN3)]

c16 = (c8*sQRT(A1/cK))/cN1

c17 = (c10*sQRT(A2/cK))/cN2

c18 = (c12*sQRT(A2/cK))/cN3

c19 = c3*A1*sQRT(PI)
                                                                                                               00001770
                                                                                                               00001780
                                                                                                              00001790
                                                                                                               00001800
                                                                                                               00001810
                                                                                                               00001820
  620 - C4"A2"SQRT(PI)
                                                                                                               90001830
                                                                                                               00001840
  CCA 152 = C3/2.
 CCA252 = C4/2.

EANSC1 = 2'.44280 T84 * COS (HBET)

CANSC2 = 2'.44280 T84 * COS (HBET)

CANSB = 2.2548279 * COS (HBET)
                                                                                                               00001850
                                                                                                             00001860
                                                                                                             00001870
                                                                                                             00001880
                                                                                                              00001890
 CAL1 - X-HBET
 CAL1 = X-HBET
CAL2 = PIMXF-HBET
CAL3 = C1-HBET
                                                                                                               00001900
                                                                                                               00001910
                                                                                                              00001920
 CAL4 . C1+HBET
                                                                                                               00001930
 CALS = -CAL1
 CALS = -CAL1

RXL = (H1)/(COS(R))

ARGARS = (CLAM)/(2.*XXL*COS(BET/2.))

HLOBEW = ARSIN(ERGARS)

ALINCP = HLOBEW*(1.2/7.8)

ALINCP = HLOBEW*(1.8/7.5)
                                                                                                             00001940
                                                                                                               00001950
                                                                                                             00001960
                                                                                                             00001970
                                                                                                               00001980
ALSTOP = C1-X+ALENCP+.3*DTR

ALBEGN = C1-X-ALENCH-.3*DTR

CBROAD = ((8.*PI*COS(BET/2.))/(g.*CLAM*COS(X)*(SIN(X)**2)))

X *((A2**1.5-A1**1.5)**2)
                                                                                                               00001990
                                                                                                               00002000
                                                                                                             90002010
                                                                                                               00002020
```

```
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       CELS1 = CBROAD+RELC1
                                                                                   00002030
       CELS2 = 10. *ALOGTO (CELS1)
                                                                                   00002040
      CPLOT1 = CELS2
                                                                                   00002050
      CPLOT2 = CELS2
                                                                                   20002060
                                                                                   00002070
CC
                                                                                   00002080
      ATESTL = 0.05*BTR
                                                                                   00002090
                                                                                   00002100
      GO TO 95
                                                                                   00002110
   10 II=II+1
                                                                                   00002120
                                                                                   00002130
       IF (ABS(AL-ALBEGN), LE ATESTL) ALBEGN = AL
      IF (ABS(AL-ALBEGN).LE.ATESTL)
                                                                                   00002140
                                         II1 = II
                                        ALSTOP = AL
      IF (ABS(AL-ALSTOP), LE ATESTL)
IF (ABS(AL-ALSTOP), LE ATESTL)
                                                                                   00002150
                                                                                   00002160
                                          II2 = II
      C21 = C3*SIN(AL)
                                                                                   00002170
      C22 = C4*SIN(AL)
                                                                                   00002189
      C23 = C5*COS(AL)
                                                                                   00002190
      C24 = C6*COS(AL)
                                                                                   00002200
     RH1 = C2-C21-C23
RH2 = C2-C22
RH3 = C2-C22+C24
                                                                                   00002210
                                                                                   00002220
   RH3 = C2-C21-C24
RH4 = -C2+C21-C23
RH5 = -RH2
RH6 = -C2+C22+C24
RHPR = -(C6/2.)*COS(AL)
CSPR = COS(RHPR)
                                                                                   00002240
                                                                                   00002260
                                                                                   00002270
                                                                                   00002290
      SNPR = SIN(RHPR)
   EJPR = CMPLX(CSPR, SNPR)
                                                                                   00002300
         CSRH1 = COS(RH1)
                                                                                   00002310
 SNRH1 = SIN(RH1)
                                                                                   00002320
 CSRH2 = COS(RH2)
                                                                                   00002330
  SNRH2 = SIN(RH2)
                                                                                   00002340
 CSRH3 = COS(RH3)
                                                                                   00002350
 SNRH3 = SIN(RH3)
                                                                                   00002360
 CSRH4 = COS(RH4)
                                                                                   00002370
      SNRH4 = SIN(RH4)
                                                                                   00002380
      CSRH5 = COS(RH5)
                                                                                00002390
   SNRH5 = SIN(RH5)
                                                                                  00002400
   CSRH6 = COS(RH6)
                                                                                   00002410
      SNRH6 = SIN(RH6)
                                                                                   00002420
      EJR1 - CMPLX(CSRH1, SNRH1)
                                                                                   20002430
    ZJR2 = CMPLX(CSRH2.SNRH2)
                                                                                00002450
  EJR3 = CMPLX(CSRH3, SNRH3)
                                                                                00002460
  EJR4 = CMPLX(CSRH4.SNRH4)
      EJR5 = CMPLX(CSRH5.SNRH5)
                                                                                   00002470
   EJR6 = CMPLX(CSRHS, SNRH6)
                                                                                00002490
  C25 = COS((PI+2.*AL)/CN1)

C26 = COS((2.*PI-2.*AL)/CN2)

C27 = COS((3.*PI-2.*AL)/CN3)

C28 = COS((PI-2.*AL)/CN1)
                                                                                  00002490
                                                                                   20002500
                                                                           00002510
                                                                              00002520
      C29 = COS((2.*PI+2.*AL)/CN2)
C30 = COS((-PI+2.*AL)/CN3)
                                                                                   00002530
                                                                                   00002540
```

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IF (C21. GE. CANEC1) GO TO 20	00002550
IF (AL. GT, C1) 80 TO 20	00002560
2r (AL. EQ. 0.4 do TO 15	00002570
CCA181 = 1./SIN(AL)	00002580
Cca18 = cca181	00002590
Ir (cca 182-cca 181) 15, 15, 25	00002600
15 CCA 15 = CCA 152	00002610
25 CONTINUE	00002620
C31 = SQRT(CCA1ST	00002630
IF (AL. EQ. 0.1 80 TO 35	00002640
$cc_{\lambda}251 = 1./sin(\tilde{g}L)$	00002650
CCA25 = CCA251	00002660
IT (CCA 252-CCA 251) 35,35,45	00002670
35 CCA2S = CCA2S2	00002680
45 CONTINUE	00002690
c32 = SQRT(CCA2ST	00002700
ORDER = 1.	00002710
CALL BESS (ORDER, C21, BS)	00002720
633 = as	00002730
£34 = 1./(cg=c26f	00002740
C35 = 1,/(C9mC29†	00002750
$c_{36} = 1./(c_{11} = c_{2})$	00002760
1s2sy = C17*C32*(C34-C14)	00002770
1525H = 617*C32*(C34+C14)	00002780
IF (AL'. GT. CALST GO TO 53	00002790
\$\$25V = 0.	00002800
1525H = 0.	00002810
53 CONTINUE	00002820
Belev = c18+a32+fa36=a151	00002830
$\begin{array}{rcl} 8535V &= & c18 + c32 + (c36 + c15) \\ 8535H &= & c18 + c32 + (c36 + c15) \end{array}$	00002840
RS5SV = C17*C32*[C35-C14]	00002850
#858H = C17*C32*CC35*C14)	00002860
IF (AL', LT. CAL 14 GO TO 55	00002870
	00002890
RS5SV = 0.	00002890
RSSSH = 0.	00002900
55 CONTINUE	00002910
CBXOX1 = 0,5	00002920
IF (AL. EQ. 0.) 60 TO 65	00002930
CBX0X1 = C33/C21	00002940
65 CONTINUE	
RHAN = -C1-C23	0000295Q 0000296Q
CSRHAM = COS(RHAM)	00002970
SNRHAN = SIN(RNAN)	
EJRAN = CMPLX(CSRHAN, SNRHAN)	00002980
RHANSY = C19*CBX6X1*EJRAN-C16*C31*C13*(EJR1+EJR4)	00002990
MANSH = C19*CBX6X1*EJRAN*C16*C31*C13*(EJR1+EJR4)	00003000
RNANSY = RS2SV+EJR2+RS3SV+EJR3+RS5SV*EJR5	00003010
RNANSH = RS2SH*E3R2+RS3SH*EJR3+RS5SH*EJR5	00003020
Zy = RMANSY + RNÁNSY	00003030
ZH = BHYNZH + BUENZH	00003040
GO TO 60	00003050
20 670 = SQRT(C24++2)/2.	00003060

```
IF (C70. LE. CANSB) GO TO 40

IF (C22. LE. CANSC2) GO TO 50

RESN = SQRT(1./SIN(AL))
                                                                                       00003070
                                                                                       00003080
                                                                                        00003090
     c37 = 1./(c7-c25)
                                                                                        20003100
     C38 = 1./(C9-C261
                                                                                        00003110
     C39 = 1./(C11-C27)
                                                                                       00003120
     C40 = 1./(C7-C285
C41 = 1./(C9-C295
                                                                                       00003130
                                                                                       00003140
     C42 = 1./(C11-C36)
RSISV = C16*RESN*(C37-C13)
                                                                                       00003150
                                                                                       00003160
     RS1SH = C16*RESN*(C37+C13)
IF (AL'. LT. CAL21 GO TO 75
                                                                                       00003170
                                                                                  00003180
     RS1SV = 0.
                                                                       00003190
00003200
00003210
 75 RS2SV = C17*RESN*(C38-C14)
RS2SH = C17*RESN*(C38+C14)
RS3SV = C18*RESN*(C39-C15)
                                                                                00003210
                                                                                     00003230
     RS3SH = C18*RESN*(C39+C15)
                                                                                       00003240
     RS4SV = C16*RESN*(C40-C13)
RS4SH = C16*RESN*(C40+C13)
IF (AL', LT', CAL3) GO TO 85
                                                                                       00003250
                                       00003250
00003270
0000328Q
     RS45V = 0.
     RS45H = 0.
                                                                                       00003290
 85 RS5SV = C17*RESN*(C41-C14)
                                                                                       00003300
     RS5SH = C17*RESN*(C41+C14)
                                                                                       00003310
     IF (AL. LT. CALIS GO TO 96
                                                                                       00003320
     RSSSV = 0.
                                                                            00003340
00003350
     RS55H = 0.
 96 RS6SV = C18*RESN*(C42-C15)
RS6SH = C18*RESN*(C42+C15)
                                                                                 00003360
     IF (AL', GT', CAL4) GO TO 105
                                                                                       00003370
     RS65V = 0.
     RS6SH = 0.
                                                                                       00003390
105 ZV=RS1SV*EJR1+RS2SV*EJR2+RS3SV*EJR3+RS4SV*EJR4+RS5SV*EJR5
X +RS6SV*EJR6
                                                                                       00003400
    X +RS6SV*EJR6
                                                                                       00003410
     2H=R51SH*EJR1+R52SH*EJR2+R53SH*EJR3+R54SH*EJR4+R55SH*EJR5
                                                                                       00003420
    X +RS6SH*EJR6
                                                                                       00003430
     GO TO 60
                                                                                       00003440
 40 C43 = 1./(c7-C251
                                                                                       00003450
     C44 = 1./(C7-C281
                                                                                       00003460
     C45 = 1./(C11-C30)
                                                                                       00003470
     RESN = SQRT(1./STN(AL))
                                                                                       00003480
     RS1SV = C16*RESN*(C43-C13)
                                                                                       00003490
                                                                                  00003500
     RS1SH = C16*RESN*(C43+C13)
     IF (AL. LT. CAL2 ) GO TO 115
                                                                                       00003510
     RS15V = 0.
                                                                                       00003520
     RS1SH = 0.
                                                                                       00003530
115 RS4SV = C16*RESN*(C44-C13)
RS4SH = C16*FESN*(C44+C13)
IF (AL'. LT. CAL3† GO TO 125
                                                                                       00003540
                                                                                       00003550
                                                                                       00003560
     R545V = 0.
                                                                                       00003570
     RS45H = 0.
                                                                                       00003580
```

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   125 RS6SV = C18*RESN*(C45-C15†

$56SH = C18*RESN*(C45+C15†

IF (AL', GT', CAL4† GO TO 135

$56SV = 0.
                                                                                                                                        00003590
                                                                                                                                        00003600
                                                                                                                                        00003610
                                                                                                                                        00003620
           #565H = 0.
                                                                                                                                        00003630
    135 SHXOX = 1,
                                                                                                                                        00003640
           BHB = C2 -C22 +(624/2.) +c1
CSRHB = COS(RHB)
                                                                                                                                        00003650
                                                                                                                                        00003660
   CSRHB = COS(RHB)

#NRHB = SIN(RHB)

BJRB = CHPLX(CARMB, SNRHB)

IF (AL, EQ, C1) dO TO 145

#NXOX = SIN(C24/3,)/(C24/2.)

145 #NSBV = ~SQRT(,27(CK*SIN(,L)))*CK*H2*SNXOX*EJRB~

X C17*SQRT(1./SIN(,L))*C14*(EJR2)*C18*SQRT(1./SIN(,L))*C15*EJR3

#NSBH = ~SQRT(,27(CK*SIN(,L)))*CK*H2*SNXOX*EJRB+

X C17*SQRT(1./SIN(,L))*C14*(EJR2)*C18*SQRT(1./SIN(,L))*C15*EJR3

#NSBV = RS1SV*EJŘ1*RS4SV*EJR4*RS6SV*EJR6

#NSBV = RS1SH*EJŘ1*RS4SV*EJR4*RS6SV*EJR6

#Y = RMSBV+RNSBV

$H = RR53N+RNSBV
                                                                                                                                        00003670
                                                                                                                                        00003680
                                                                                                                                       00003690
                                                                                                                                       00003710
                                                                                                                                       00003720
                                                                                                                                       00003730
                                                                                                                                        00003740
                                                                                                                                        00003750
                                                                                                                                        00003760
                                                                                                                                        00003770
                                                                                                                                        00003780
           TH - RHIBH+RHEBH
   TH = RESPANCES

80 TO 60

50 IF (11. 20. PI+ 60 TO 155

CCA 151 = 1./SIN(11)

CCA 15 = CCA 151

IF (CCA 152-CCA 151) 155.155.165

155 CCA 15 = CCA 152
                                                                                                                                       00003790
                                                                                                                                        00003800
                                                                                                                                        00003810
                                                                                                                                       00003820
                                                                                                                                        00003830
                                                                                                                                        00003840
                                                                                                                                        00003850
    165 CONTINUE
           643 = SQRT(CCA1ST

IP (AL' EQ' PT 60 TO 175

CCA2ST = 1./SIM(AL)
                                                                                                                                        00003860
                                                                                                                                        00003870
                                                                                                                                        00003889
           CCA25 = CCA251
IF (CCA252-CCA251) 175,175,185
                                                                                                                                        00003890
                                                                                                                                        00003900
                                                                                                                                        00003910
    175 CCA25 = CCA252
    185 CONTINUE
                                                                                                                                        00003920
           C44 = SQRT(CCA251
HAT = -C1+C24
                                                                                                                                        00003930
                                                                                                                                        00003940
           CSRHAT = COS(RHAT)
                                                                                                                                        00003950
                                                                                                                                        00003960
           BURHAT = SIN(RHAT)
                                                                                                                                       00003970
           EJRAT = CMPLX(CSHAT.SNRHAT)
           EBXOX2 = 0'.5
IF (AL', EQ', PI) 60 TO 195
ORDER = 1.
                                                                                                                                        00003980
                                                                                                                                        00003990
                                                                                                                                       00004000
           CALL BESS (ORDER, C22. BS)
                                                                                                                                       00004010
           C45 = BS
CBXOX2 = C45/C22
                                                                                                                                       00004020
                                                                                                                                       00004030
    195 CONTINUE
                                                                                                                                       00004040
          C46 = 1./(C7-C25)

C47 = 1./(C9-C26)

Rsisy = C16*C43*[C46-C13)

Rsish = C16*C43*[C46+C13]

Ip (AL'. LT'. CAL2) GO TO 205

Rsisy = 0.
                                                                                                                                       00004050
                                                                                                                                       00004060
                                                                                                                                       00004070
                                                                                                                                       00004080
                                                                                                                                       00004090
                                                                                                                                       00004100
```

```
00004110
RS1SH = 0.

RS2SV = C17*C44*{C47-C14}

RS2SH = C17*C44*{C47+C14}
                                                                                                                                                                                                                00004120
                                                                                                                                                                                                                00004130
           RMATSV = C20*CBX0X2*EJRAT-C18*C44*C15*(EJR3+EJR6)
RMATSH = C20*CBX0X2*EJRAT+C18*C44*C15*(EJR3+EJR6)
RNATSV = RS1SV*EJR1+RS2SV*EJR2
                                                                                                                                                                                                               00004140
                                                                                                                                                                                                               00004150
                                                                                                                                                                                                               00004160
                                                                                                                                                                                                               00004170
            RNATSH = RS1SH+EJR1+RS2SH+EJR2
            ZV = RMATSV + RNATSV
                                                                                                                                                                                                                00004180
            ZH = RMATSH + RNATSH
                                                                                                                                                                                                               00004190
                                                                                                                                                                                                               00004200
            GO TO 60
                                                                                                                                                                                                                00004210
   60 ZV = ZV*EJPR
            ZH = ZH*EJPR
                                                                                                                                                                                                                00004220
                                                                                                                                                                                                                00004230
            ZVC = CONJG(ZV)
                                                                                                                                                                                                                00004240
                                                                                                                                                                                                               00004250
            ZHC = CONJG(ZH)
                                                                                                                                                                                                               00004260
            SSH = ZH*ZHC
                                                                                                                                                                                                               00004270
            REALSV = REAL(SSV)
                                                                                                                                                                                                               00004280
            REALSH = REAL(SSH)
                                                                                                                                                                                                                00004290
             RELSV1 = REALSV*KELC1
RELSV2 = 10.*ALOG10(RELSV1)
                                                                                                                                                                                                               00004300
                                                                                                                                                                                                               00004310
             RELSH1 = REALSH*RELC1
            BELSH2 = 10. *ALOG1 (RELSH1)
RHV1=ATAN2(AIMAG ZV).REAL ZV))
                                                                                                                                                                                                               00004320
                                                                                                                                                                                                               00004330
            CALL UPDAT(RHV1, RHV2, PI, THETAV)
RHH1=ATAN2(AIMAG[ZH), REAL[ZH))
CALL UPDAT(RHH1, RHH2, PI, THETAH)
                                                                                                                                                                                                                00004340
                                                                                                                                                                                                               00004350
                                                                                                                                                                                                               00004360
            AL = RTD*AL

WRITE(6,2002) AL RELSV2 RELSH2 THETAV, THETAH

IF(RELSV2.GT.0'.) RELSV2 = AMINA(RELSV2,40.)

IF(RELSV2.LT.0'.) RELSV2 = AMAX1(RELSV2,-70.)

TOTAL STATE OF THE ST
                                                                                                                                                                                                               00004370
                                                                                                                                                                                                               00004380
                                                                                                                                                                                                               00004390
                                                                                                                                                                                                                00004400
            IF (RELSH2.GT. ) RELSH2 = AMINI(RELSH2.40.)
IF (RELSH2.LT. ) RELSH2 = AMAX1(RELSH2.-70.)
                                                                                                                                                                                                                00004410
                                                                                                                                                                                                                00004420
                                                                                                                                                                                                                00004430
             TY1(II) = RELSV2
                                                                                                                                                                                                                00004440
             TY2(II) = RELSH2
                                                                                                                                                                                                                00004450
             TY3(II) = THETAV
                                                                                                                                                                                                                00004460
             YY4(II) = THETAH
                                                                                                                                                                                                                00004470
             XX(II) = AL
                                                                                                                                                                                                                00004480
             AL = DTR*AL
                                                                                                                                                                                                               00004490
             IF (ABB (AL-ALSTOP) .GT. ATESTL) GO TO 300
                                                                                                                                                                                                                00004500
             IC = II1
             CC1 = ALBEGN
                                                                                                                                                                                                               00004510
                                                                                                                                                                                                                00004520
             NP = 9
                                                                                                                                                                                                                00004530
             IC2 = II2-3
                                                                                                                                                                                                               00004540
             CC2 = ALSTOP-3. *ALUP
                                                                                                                                                                                                                00004550
             DO 301 I = 1.4
                                                                                                                                                                                                                00004560
             BX(I) = CC1*RTD
                                                                                                                                                                                                                00004570
             BY(I)= YY1(IC)
                                                                                                                                                                                                                00004580
             CY(I) = YY2(IC)
                                                                                                                                                                                                                00004590
             DY(I) = YY3(IC)
                                                                                                                                                                                                                00004600
             EY(I) = YY4(IC)
                                                                                                                                                                                                                00004610
             IC = IC+1
                                                                                                                                                                                                                00004620
             CC1 = ALUP+CC1
```

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301 CONTINUE	000046
#X(5) = (PI/2.4X7.RED	000046
BY(5)= CPLOT1	000046
er(5) = cPLOT2	0000461
bo 302 I = 6.9	000046
SX(I) = CC2*RTD	0000461
\$Y(I)= YY1(Ic2)	000046
CYTY = YYZ(ICZ)	000047
DY(I) = YY3(IC2)	. 000047
BY(I) = YY4(IC2)	000047
8c2 = Ic2+1	000047
	000047
CC2 - CC2+ALUP	000047
302 CONTINUE	
by(5) = (py(4)+py(6))/2.	000047
BY(5) = (EY(4)+EY(6))/2,	000047
343 IP = ALBEGN * RTD	000047
CALL SPLN46 (O.XP.YP.BX.BY.NP.B1.B2.B3)	000047
tall spluu6 (0.xp. yp1.Bx.cx. NP.Bu.B5.B6)	000048
CALL SPLN46 (0.XP.YP2.BX.DY,NP.B7.BB.B9)	00004g
CALL SPLW46 (0.X9, YP3, BX.EY, NP. 210. B11. B12)	000048
CCCC1=DELAL*RTD	000048
Do 303 I = II1.112	000048
CALL SPLN46 (1.XP.YP.BX.BY.NP.B1.B2.B3)	00004g
CALL SPLN46 (1.XP.YP1.BX.CY,NP.B4.B5.B6)	000048
CALL SPLN46 (1.XF, YP2.BX.DY, NP.B7.B8.B9)	000048
CALL SPIN46 (1.XP, YP3, BX, EY, NP, 310, B11, B12)	000048
XX(X) = XP	000048
TYTICE YP	000049
	000049
TY2(I) = YP1	000049
TY3(I) = YP2	[ - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
\$74(I) = Yp3	000049
XP = XP+CCCC1	000049
303 CONTINUE	000049
AL = ALSTOP	000049
300 AINDX=II	000049
AL-AINDX DELAL +ALO	000049
IF (AL-ALMAX) 10810,200	000049
200 CALL PLTGDT	000050
80 TO 1	000050
95 CONTINUE	000050
WRITE(6,2001)	000050
	000050
THETAY = 0.	000050
THETAH = 0',	000050
GO TO 10	경기 내는 그리고 있었다. 그리고 있는 것이 되었다면 하는 것이 없는 것이 없는데 없다.
999 CONTINUE	000050
STOP	000050
END	000050

Sample Input for the FRUSTUM-CYLINDER Program as Output

A (ATRIE) CREASE AT WITH A TORSE HORIZON

- 27000000 02 02 × 17901 6030000 11 5440 5611110

THE THE CONTRACT OF THE PARTY O

CONTROL OF THE REPORT OF THE PROPERTY OF THE P

Donocollin - Altinian change vi liger tobase in the proxi-

DESCRIPTION OF CARL BUTBURS OF BUILDING PARTY.

W. Carl

## INPUTS - FRUSTUM CYLINDER

SHALLER RADIUS OF FRUSTUM (A1) = 2,4460000

LARGER RADIUS OF FRUSTUM (A2) = 3,7500000

FULL HEIGHT OF FRUSTUM (H1) = 7,4210000

FULL HEIGHT OF CYLINDER (H2) = 17,2600000

WAVE LENGHT (CLAM) . 2.0056000

INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = 0.1000000

MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 180,0000000

ASPECT ANGLE IN DEGREES (AL) . 0;

BISTATIC ANGLE IN DEGREES (BET) = 10,2500000

Sample Output for the FRUSTUM-CYLINDER Program

458.0-

NAC A

808.0\* 5597847

ALSV(DBSM.)SH(DBSM.)	THETAV	THETAH
01.50E 00-1.93E 00	-1.169	-1.170
0.10-1.50E 00-1.915 00	-1.168	-1.168
0.20-1.50E 00-1.58E 00	-1.167	-1.165
0.30-1.51E 00-1.85E 00	-1.165	-1.162
0.40-1.51E 00-1.93E 00	-1.163	-1.159
0.50-1.52E 00-1.50E 00	-1.161	-1.155
0.60-1.538 00-1.788 00	-1.158	-1.152
0.70-1.54E 00-1.75E 00	-1.155	-1.148
0.80-1.55E 0Q-1.73E 00	-1.152	-1.144
0.90-1.56E 00-1.71E 00	-1.149	
1.00-1.57E 00-1.59E 00	-1.145	-1.140
1.10-1.59E 00-1.56E 00	-1:141	-1.136 -1.132
1.20-1.61E 00-1.65E 00	-1.137	-1.127
1.39-1.63E 00-1.63E 00	-1.132	-1.123
1.40-1.65E 00-1.51E 00		
	-1.127	-1.118
1.50-1.67E 00-1.59E 00	-1.122	-1.113
1.60-1.69E 00-1.58E 00	-1.117	-1.108
1.70-1.72E 00-1.57E 00	-1.111	-1.103
1.80-1.75E 00-1.55E 00	-1.105	-1.098
1.98-1.77E 00-1.54E 00	-1.099	-1.093
2.00-1.80E 00-1.54E 00	-1.092	-1.087
2.10-1.84E 00-1.53E 00	-1.086	-1.082
2.20-1.87E 00-1.52E 00	-1.078	-1.076
2.30-1.90E 00-1.52E 00	-1.071	-1.071
2.40-1.94E 00-1.52E 00	-1.063	-1.065
2.50-1.98E 00-1.52E 00	-1.056	-1.059
2.60-2.02E 00-1.52E 00	-1.047	-1.053
2.70-2.06E 00-1.52E 00	-1.039	-1.047
2.80-2.10E 00-1.53E 00	-1.030	-1.041
2.90-2.15E 00-1.54E 00	-1.021	-1.035
3.00-2.19E 00-1.55E 00	-1.012	-1.029
3.10-2.24E 00-1.57E 00	-1.002	-1.023
3.20-2.29E 00-1.58E 00	-0.992	-1.017
3.30-2.34E 00-1.50E 00	-0.982	-1.011
3.40-2.40E 00-1.53E 00	-0.972	-1.004
3.50-2.45E 00-1.55E 00	-0.961	-0.998
3.60-2.51E 00-1.58E 00	-0:950	-0.991
3.70-2.57E 00-1.71E 00	-0.939	-0.985
3.80-2.63E 00-1.75E 00	-0.928	-0.978
3.90-2.69E 00-1.79E 00	-0.916	-0.971
4.00-2.75E 00-1.93E 00	-0.904	-0.964
4.10-2.82E 00-1.38E 00	-0.891	-0.958
4.20-2.88E 00-1.93E 00	-0.879	-0.951
4.30-2.95E 00-1.99E 00	-0.866	-0.943
4.40-3.02E 00-2.05E 00	-0.853	-0.936
4.50-3.10E 00-2.11E 00	-0.840	-0.929
4.60-3.17E 00-2.18E 00	-0.826	-0.921
4.70-3.25E 00-2.25E 00	-0.812	-0.914
4.80-3.33E 00-2.33E 00	-0.798	-0.906
4.90-3.41E 00-2.36E 00	-0.783	-0.917
5.00-3.49E 00-2.45E 00	-0.769	-0.908
5.10-3.57E 00-2.55E UO	-0.754	-0.899
5.20-3.66E 00-2.55E 00	-0.739	-0.890
5.30-3.75E 00-2.76E 00	-0.723	-0.881
5.40-3.84E 00-2.97E 00	-0.707	-0.871
5.50-3.93E 70-2.99E UO	-0.691	-0.861
5.60-4.02E CO-3.11E 00	-0.675	-0.850
5.70-4.12E 00-3.24E 00	-0.659	-0.839

The second state of the second second

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5,80-4.22E 00-3.37E 00
                           -0.642
                                    -0.827
 5.90-4.32E 00-3.51E UD
                           -0.625
                                    -0.815
 6.00-4.42E 00-3.66E UO
                           -0.6,8
                                    -0.803
                           -0.590
 6.16-4.53E ng-3.81E 00
                                    -0.790
 6.20-4.64E 00-3.96E 00
                           -0.572
                                    -0.776
                                    -0.762
 6.36-4.75E 00-4.13E 00
                           -0.554
                                    -0.747
-0.731
 6.40-4.86E 00-4.30E 00
                           -0.536
 6.56-4.97E 00-4.47E 00
                           -0.517
 6.60-5.09E 00-4.66E UD
                           -0.499
                                    -0.715
 6.78-5.21E 00-4.84E 00
                           -0.480
                                    -0.698
 6.80-5.33E ^0-5.04E UO
                           -0.460
                                    -0.680
 6.90-5.45E 00-5.24E UO
                           -0.441
                                    -0.662
 7.00-5.58E 00-5.45E 00
                           -0.421
                                    -0.642
 7.10-5.71E 00-5.66E 00
                           -0.401
                                    -0.622
 7.20-5.84E 00-5.88E 00
                                    -0.601
                           -0.381
 7.30-5.97E 00-6.10E 00
                                    -0.579
                           -0.360
 7.40-6.11E 00-6.33E 00
                           -0.340
                                    -0.555
 7.50-6.25E 00-6.57E UO
                           -0.319
                                    -0.531
 7.60-6.39E 00-6.81E 00
7.70-6.54E 00-7.06E 00
                           -0.298
                                    -0.505
                           -0.277
                                    -0.478
 7.80-6.68E 00-7.31E 00
                           -0.255
                                    -0.449
                           -0.233
 7.90-6.84E 00-7.56E UO
                                    -0.419
 8.00-6.99E 20-7.92E 00
                           -0.211
                                    -0.388
 8.10-7.15E CO-8.08E 00
                           -0.189
                                    -0.356
 8,26-7.31E 00-8.34E UO
                           -0.167
                                    -0.322
 8.30-7.47E 00-8.61E 00
                                    -0.286
                           -0.144
 8.40-7.63E 00-8.87E UO
                                    -0.249
                           -0.121
 8.50-7.80E 00-9.13E 00
                           -0.098
                                    -0.210
 8.60-7.98E 00-9.39E 00
8.78-8.15E 00-9.64E 00
                           -0.075
                                    -0.169
                           -0.051
                                    -0.127
                                    -0.083
 8.80-8.33E 00-9.59E 00
                           -0.027
 8.90-8.51E 00-1.01E U1
                           -0.003
                                    -0.038
 9.00-8.70E 00-1.04E U1
                            0.021
                                     0.008
 9.10-8.89E 00-1.06E U1
                            0.046
                                     0.056
 9.20-9.04E 70-1.08E 91
                            0.064
                                     0.097
 9.30-9.20E 00-1.09E 01
                            0.087
                                     0.144
 9.40-9.36E 00-1.11E 01
                            0.110
                                     0.192
 9.50-9.53E 00-1.12E U1
                                     0.240
                            0.133
 9.60-9.70E 00-1.14E
                                     1.289
                            0.157
                      01
 9.70-9.88E 00-1.15E
                            0.180
                                     0.337
                      111
 9.80-1.01E 01-1.16E
                            0.214
                      U1
                                     0.386
 9.90-1.02E 1-1.17E 01
                            0.228
                                     7.433
10.00-1.04E 01-1.18E 01
                            0.252
                                     0.481
10.10-1.06E 01-1.19E 01
                            0.276
                                     1.527
10.20-1.08E (1-1.19E 01
                                     0.573
                            0.300
10.30-1.10E 01-1.2 E 01
                            0.324
                                     0.618
10.40-1.12E 11-1.21E 01
                            0.348
                                     3.661
10.50-1.15E 01-1.21E J1
                            0.373
                                     0.704
10.60-1.17E C1-1.22E J1
                            0.397
                                     0.745
10.70-1.19E 01-1.22E 01
                                     C.785
                            0.421
10.80-1.21E F1-1.23E
                            0.445
                                     1.823
                      01
                            0.470
10.98-1.24E P1-1.24E 91
                                     0.860
                            0.494
11.00-1.26E 11-1.24E
                                     0.896
                      61
11.10-1.29E 01-1.25E 01
                            0.518
                                     0.930
                                     0.963
11.20-1.31E 71-1.26E 01
                            0.542
11.30-1.34E 1-1.27E
                            0.566
                                     0.994
                      91
                            0.590
11.40-1.36E 91-1.28E 01
                                     1.024
11.50-1.39E 01-1.29E
                                     1.053
                            0.613
                      01
11.60-1.42E 01-1.3 E J1
                            0.636
                                     1.081
```

		THE PROPERTY OF THE PROPERTY O
11.70-1.45E 01-1.32E 01	0.659 1.10	
11.80-1.47E 01-1.33E 01	0.682 1.13	
11.90-1.50E 01-1.35E 01	0.704 1.19	
12.00-1.54E 01-1.37E 01	0.726 1.17	
12.10-1.57E 01-1.39E 01	0.747 1.20	
12.26-1.60E 01-1.41E 01	0.768 1.22	
12.36-1.63E 01-1.43E U1	0.788 1.24	
12.46-1.66E 01-1.46E 01	0.807 1.26	
12.50-1.70E 01-1.49E U1	0.825 1.27	
12.60-1.73E 01-1.32E 01	0.843 1.29	
12.70-1.77E 01-1.56E 01	0.859 1.30	
12.80-1.81E 01-1.50E 01	0.874 1.32	
12.96-1.84E 01-1.64E 01	0.887 1.33	
13-00-1.88E 01-1.88E 01	0.900 1.34	
13.10-1.92E 01-1.73E 01	0.910 1.35	
13.26-1.96E 01-1.76E 01	0.919 1.36	
13.30-2.00E 01-1.84E 01	0.925 1.37	
13.40-2.05E 01-1.90E 01	0.929 1.37	
13.56-2.09E 01-1.97E 01	0.930 1.37	5. 7 5 (8. A go 002 17 16 1
13.60-2.13E 01-2.85E U1	0.929 1.37	
13.70-2.17E 01-2.13E 01	0.924 1.36	
13.00-2.216 01-2.226 01	0.916 1.35	
13.98-2.25E 01-2.32E 01	0.905 1.33	
14.06-2.30E 01-2.43E 01	0.889 1.30	
14.10-2.33E 01-2.56E 01	0.870 1.25	9
14.20-2.37E 01-2.70E 01	0.847 1.19	
14.30-2.41E 01-2.86E 01	0.819 1.09	
	0.788 0.94	
14.40-2.44E 01-3.02E 01		
14.50-2.46E 01-3.19E 01	0.754 0.72	
14.60-2.49E 01-3.30E 01	0.717 0.42	5 N. Charles and Charles of the Char
14.70-2.50E 01-3.32E 01	0.678 0.07	
14.80-2.51E 01-3.23E 01	0.638 -0.22	
14.98-2.52E 61-3.10E 01	0.599 -0.44	
15.00-2.52E 01-2.96E 01	0.561 -0.59	
15.10-2.52E 01-2.83E 01	0.525 -0.69	
15.20-2.51E 01-2.71E 01	0.492 -0.76	0
15.30-2.50E 01-2.61E 01	0.464 -0.80	2
15.40-2.48E 01-2.53E 01	0.439 -0.83	
15.50-2.46E 01-2.46E 01	0.419 -0.84	
15.60-2.446 01-2.396 01	0.403 -0.85	
15.70-2.42E 01-2.34E 01	0.392 -0.85	
15.80-2.39E 01-2.30E 01	0.385 -0.85	3
15.90-2.37E 01-2.26E 01	0.383 -0.84	6
16.08-2.34E 01-2.23E 01	0.384 -0.83	
16.10-2.32E 01-2.21E 01	0.389 -0.82	
16.20-2.29E 01-2.19E 01	0.398 -0.80	[발생] 사용 하는 이 계속 함께서 기계를 하는 생각하면 보이라면 하는 사람들이 살아가는 하는 것이 되었다.
16.30-2.27E 01-2.18E 01	0.409 -0.78	
16.40-2.25E 01-2.17E 01	0.424 -0.75	
16.50-2.23E 01-2.17E 01	0.441 -0.73	
16.60-2.20E 01-2.17E 01	0.461 -0.69	
	0.483 -0.66	프랑마스 에 관계 전투 하다 수 있다면 보이었습니다. 그는
16.70-2.18E 01 2.18E 01		The state of the s
16.80-2.16E 01-2.19E U1	0.508 -0.62	
16.98-2.14E 01-2.21E 01	0.534 -0.58	
17.06-2.12E 01-2.23E 01	0.562 -0.53	
17.10-2.11E 01-2.25E 01	0.591 -0.47	
17.20-2.09E 01-2.28E 01	0.622 -0.41	
17.30-2.07E 01-2.31E 01	0.655 -0.33	
		The state of the s
17.40-2.06E 01-2.34E 01	0.689 -0.25	
17.98-2.04E 01-2.38E 01	0.724 -0.16	7 17-280
17.60-2.03E 01-2.41E 01	0.760 -0.06	

			A STA	2 20
17.70-2.0	DZE 01-2.	3E 01	0.797	0.047
17.80-2.0	DE 01-2.4	5E 01	0.835	0.171
17.90-1.9		6E 01	0.874	0.302
18.00-1.9	BE 01-2.		0.914	0.438
18.10-1.9			0.955	0.576
10,10-1.	14E 01-2.			
18.26-1.9	6E 61-2.	15 01	0.996	0.710
18.30-1.9	5E 01-2.	37E 01	1.038	0.838
18.40-1.			1.080	0.957
18.50-1.9			1.124	1.065
18.60-1.9			1.167	1.163
18.70-1.9	92E 01-2.1	L6E 01	1.211	1.251
18.88-1.9	91E 01-2.1	LOE 01	1.256	1.330
18.90-1.9		5E 01	1.3 1	1.400
19.00-1.9		03E 01	1.346	1.464
19.10-1.8	39E 01-1.5		1.392	1.521
19.20-1.8			1.438	1.574
19.30-1.8			1.484	1.622
19.40-1.8			1.531	1.666
19.50-1.6		785 01	1.578	1.707
19.60-1.6	7E 01-1.	75E 01	1.625	1.746
19.70-1.6		725 01	1.672	1.782
	75 04-4	25 01	1.0/2	
19.80-1.6			1.720	1.816
19.90-1.8			1.767	1.849
20.00-1.8			1.815	1.881
20.10-1.8			1.863	1,911
20.20-1.8			1.912	1.941
20.30-1.8	37E 01-1.5	1E 91	1.960	1.969
20.40-1.8	37E 01-1.5	פרב טו	2.009	1.998
20,50-1.8		SE 01	2.058	2,026
20.60-1.8			2.1.7	2.053
20,70-1.8	38E 01-1.5	DE U1	2.156	2,081
20.80-1.8	39E 01-1.5	15 01	2.215	2.109
20.90-1.8	39E 01-1.5	SE 01	2.255	2.137
21.00-1.9	DE (1-1.5	3E 01	2.3.5	2.166
21.10-1.9	DE 01-1.5	5E 01	2.355	2.195
21.20-1.9			2.4.6	2.225
21.30-1.9			2.456	2.256
21.40-1.9			2.5.7	2.289
21.50-1.9	3E 1-1.7	75E 01	2.559	2.323
21.60-1.9	4E 11-1.7	78E 01	2.610	2.359
21.70-1.9	5E 01-1.5	32E 01	2.662	2.397
21.80-1.9			2.714	2.439
21.90-1.9			2.767	2.484
22.00-1.9			2.820	2.533
22.10-1.9			2.873	2.588
22.20-2.0	DE 11-2.0	9E U1	2.927	2.649
22.30-2.0	11E 11-2.1	5E 01	2.981	2.718
22.40-2.0			3.035	2.797
			7	
22.50-2.0	4E 01-2.3	7E 01	3.190	2.888
22.60-2.0			3.145	2.994
22.70-2.0	7E 01-2.4	55 01	3.2.0	3.116
22.80-2.0	8E 01-2.	1E 01	3.255	3.256
, 22.90-2.0	9E 01-2.	75 01	3.311	3.414
23.00-2.1			3.367	3.586
23.10-2.1			3.423	3.766
23.20-2.1			3.479	3.943
23.30-2.1			3.535	4.110
23.40-2.1			3.592	4.261
23.50-2.1	BE 01-2.5	2E U1	3.648	4.393

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23,60-2,19E	01-2.47E	01 3.704	4.507
23.78-2.216		01 3.759	4.605
23.80-2.22E		01 3.815	4.689
23.96-2.246		01 3.870	4.761
24.00-2.25E		01 3.924	4.824
24.16-2.27E 24.20-2.28E		01 3.978	4.879
24.30-2.30E		01 4.032	4.927
24.40-2.31E		01 4.137	5.007
24.50-2.33E	01-2.18E	01 4.188	5.041
24.68-2.34E		01 4.238	5.071
24.76-2.36E		01 4.288	5.099
24.80-2.37E 24.90-2.39E		01 4.337 01 4.385	5.123
25.00-2.40E		01 4.432	5.164
25.10-2.42E		01 4:477	5.180
25.20-2.44E		01 4.522	5.194
25.30-2.45E		01 4.566	5.205
25.40-2.47E 25.56-2.49E		01 4.609	5.214
25.60-2.50E		1 4.692	5.220
25.70-2.52E	CONTRACTOR OF THE PARTY OF THE	1 4.732	5.216
25.80-2.54E	01-2.62E	1 4.772	5.205
25.90-2.56E		01 4.810	5.187
26.00-2.58		1 4.848	5.157
26.18-2.59E 26.20-2.61E		1 4.885	5.111
26.30-2.63E		4.958	4.926
26.40-2.65E		1 4.994	4.748
26.50-2.67E		1 5.029	4.471
26.40-2.68E		01 5.065	4.090
26.70-2.70E 26.80-2.71E		5.100 5.136	3.699 3.402
26.90-2.73E	PROBLEM AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY.	5.172	3.208
27.08-2.74E	The state of the s	1 5.209	3.085
27.10-2.76E	01-3.115	1 5.246	3.003
27.20-2.77E		1 5.284	2.948
27.30-2.78E		5.323	2.910
27.40-2.79E 27.50-2.80E	THE RESERVE OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND PARTY OF THE PERSON NAMED AN	5.364	2.883
27.60-2.80E		5.448	2.847
27.70-2.81E		1 5.492	2.835
27.80-2.81E		5.538	2.826
27.90-2.81E		5.585	2.817
28.00-2.81E 28.10-2.81E	THE RESERVE THE PARTY AND THE PARTY AND THE PERSON.	5.634	2.808
28,20-2.80E		5.735	2.788
28.39-2.79E		5.787	2.775
28.40-2.79E		5.840	2.758
28.50-2.78		5.895	2.734
28.60-2.76E 28.70-2.75E	MANAGEMENT OF THE PARTY OF THE	1 5.950	2.702
28.80-2.74E		1 6.062	2.589
28.90-2.72E	A CALEGO THE REPORT OF THE PARTY OF THE PART	1 6.119	2.488
29.00-2.71E	01-3.45E	1 6.176	2.332
29.10-2.69		6.233	2.089
29.20-2.67E 29.30-2.66E		6.290	1.737
29.40-2.64E		6.404	1.338
29.50-2.62E		1 6.461	0.788

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PRC INFORMATION SCIENCES CO ROME N Y
SPACE SURVEILLANCE SOFTWARE SUPPORT. VOLUME 1, PART 1, BOOK 2. --ETC(U)
OCT 76 P R CONTI

RADC-TR-76-261-VOL-1-PT-1- NL AD-A033 514 UNCLASSIFIED 4 of 5 AD A033514 I.E.

85.80-2.47E	01-2.53E	01 1	0.871	4.132	
85.68-8.49E			0.960	4.208	
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35.86-2.52E			1.145	4.435	
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36.08-2.55			1.338	4.900	
36.10-2.56E			1.438	5.301	
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36.70-2.60E			2.044	6.784	
36.80-2.60E			2.142	6.855	4-5-5-
36.90-2.59E			2.237	6.913	
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37.10-2.59E	01-2.42E	01 1	2.422	7.004	
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38.18-2.59E			3.228	7.280	
38-28-2.60E			3.304	7.300	
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38.40-2.63E			3.457	7.340	
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38.70-2.68E					
38.80-2.71E			3.783	7.417	
38.90-2.73E			3.871	7.441	والمربعة بالماعات
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39.28-2.79E			4.156	10.537	
39.30-2.81E			4.259	10.579	222.55
39.40-2.83E			4.365	10.599	
39.50-2.84E			4.473	10.614	
39.60-2.85E			4.584	10.626	
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39.80-2.86E			4.879	10.643	
39.98-2.85E			4.921	10.649	
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40.10-2.84E			5.137	10.655	331 5-1
40.20-2.82E			5.241	10.655	BAR - C - I
40.30-2.81E			5.340	10.653	980.88
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41.00-2.68E			5.926	10.531	
41.10-2.67E			5.997	10.491	
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41.38-2.65E			6.135	10.384	IV-284
41.40-2.65E			6.203	10.316	14-504
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381,4+85,11 381,5+04,21 308,8484,71 41,6,3+38,28

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51.00-2.43E	01-2.13E	01 26.4		
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93.30-2.43E	01-2.18E	01 29.2	63 17.020	

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89,10 2,53E	00 2.55E	00 7	6.311	26,021
89.20 2.81E	The second secon		6.315	26.026
89.30 3.06E	00 3.19		6.320	26.031
89.46 3.27E	00 3.405		6.325	26.038
89.50 3.45E	00 3.585		6.331	26.045
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93.70-1.91E	1-2.2 E	01 7	3.788	23.311
93.80-1.72E	01-1.925	U1 7:	3.618	23.134
93.90-1.57E	01-1.715		3.5 9	23.040
94.00-1.44E	01-1.55E	61 7	3.436	22.986
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94.60-1.05E	01-1.375		3.273	22.922
94.70-1.03E	1-1.05	The state of the s	3.265	22.929
94.80-1.02E	01-1.03E	OF THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	3.260	22.938
94.90-1.01E	01-1.02E	J1 7	3.255	22.949

05 00-1 025	04-1 025	01	77 252	22 0/2
95,00-1,02E 95.10-1.03E	01-1.02E 01-1.04E	01	73.252	22.962
95.20-1.06E	P1-1.09E	01	73.248	22.931
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96.40-2.40E	01-3.445	U1	72.670	23.499
96.50-2.61E 96.60-2.66E	01-4.10E	01	72.3 <sub>0</sub> 3 71.811	25.572 26.155
96.70-2.53E	01-2.575	01	71.390	26.264
96.80-2.33E	01-2.29E	01	71.126	26.320
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Salar Manager

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154.50-2.54E	1-2.93E	U1	42.771	18.928
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154.80-2.49E	01-2.53E	01	42.859	19.007
154.90-2.47E	61-2.455	01	42.884	19.015
155.00-2.44E	01-2.39E	01	42.9.15	19.018
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155.20-2.39E	01-2.29E	01	42.940	19.009
155.30-2.36E	C1-2.26E	01	42.953	18.998
155.40-2.33E	01-2.235	01	42.963	18.984
155.50-2.30E	01-2.20E	01	42.971	18.966
155.60-2.27E	01-2.19E	01	42.976	18.945
155.70-2.25E	01-2.17E	01	42.979	18.890
155.80-2.226		01		18.857
155.90-2.19E	01-2.16E	01	42.977	18.819
156.10-2.14E	01-2.16E	01	42.968	18.777
156.20-2.11E	01-2.16E	01	42.962	18.730
156.30-2.09E	01-2.165		42.953	18.677
156.40-2.06E	01-2.17E	01	42.944	18.619
156.50-2.04E	01-2.18E		42.933	18.555
196.60-2.02E	01-2.185	01	42.921	18.487
156.70-2.008	01-2.185	01	42.9.8	18.413
156.80-1.98E	91-2.18E	01	42.894	18.335
156.90-1.96E	91-2.18E	01	42.880	18.253
157.00-1.94E	01-2.17E	01	42.864	18.169
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157.30-1.89E	01-2.12E	01	42.815	17.917
157.40-1.87E	01-2.10E	01	42.798	17.837
157.50-1.86E	01-2.07E	01	42.780	17.760
157.60-1.85E	01-2.03E	01	42.762	17.688
157.70-1.83E	11-2.00E	01	42.744	17.621
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157.90-1.81E	01-1.935	01	42.7.7	17.502
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158.20-1.79E	01-1.84E	01	42.650	17.356
158.30-1.78E	01-1.915	01	42.631	17.314
158.40-1.78E	01-1.78	01	42.612	17.277
158.50-1.77E	1-1.75E	01	42.593	17.242
158.60-1.77E	61-1.735	01	42.575	17.209
158.70-1.77E	01-1.71	01	42.556	17.179
158.80-1.76E	01-1.7	01	42.538	17.151
158.90-1.76E	1-1.585	01	42.519	17.125
159.00-1.76E	1-1.67E	01	42.5.2	17.101
159.10-1.77E	01-1.555	01	42.484	17.077
159.20-1.77E 159.30-1.77E	01-1.55E	91	42.450	17.055
199.40-1.78E	01-1.55	U1	42.433	17.014
159.50-1.79E	1-1.55	01	42.417	16.995
159.60-1.79E	1-1.66	01	12.4.2	16.976
159.70-1.80E	1-1.57E	01	42.387	16.958
159.80-1.81E	01-1.585	01	42.373	16.940
159.90-1.82E	01-1.70E	01	42.360	16.922
160.00-1.84E	01-1.715	01	42.348	16.905
160.10-1.85E	01-1.745	01	42.336	16.888
160.20-1.87E	01-1.765	01	42.326	16.870
160.30-1.88E	01-1.795	01	42.316	16.853
160.40-1.90E	01-1.335	01	42.3 9	16.835

160,50-1.92E	91-1.875	01	42.3.2	16,817
160.66-1.94E	04-4 045		42.297	
	01-1.91E	01		16.799
160.70-1.97E	01-1.96	01	42.294	16.780
160.86-1.99E	01-2.01E	01	42.294	16.760
160.90-2.02E	01-2.08E	01	42.295	16.739
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161.10-2.08E	01-2.22E	01	42.3.7	16.692
161.20-2.11E	01-2.31E	01	42.317	16.666
161.30-2.14E	01-2.41E	01	42.332	16.636
161.40-2.17E	01-2.53E	01	42.351	16.602
151.50-2.21E	01-2.66E	01	42.375	16.562
161.60-2.24E	01-2.82E	01	42.405	16.511
161.70-2.28E	The second secon		42.441	16.443
	01-3.02E	01		
161.80-2.32E	01-3.27E	01	42.483	16.340
161.90-2.35E	01-3.615	U1	42.533	16.154
162.00-2.38E	01-4.05E	91	42.591	15.717
162.10-2.41E	01-4.22E	01	42.656	14.750
162.20-2.43E	01-3.30E	01	42.728	14.082
140:20-2.445				
162:30-2.44E	01-3.43E	01	42.806	13,819
162.40-2.44E	01-3.15E	01	42.888	13.686
162,50-2.44E	01-2.94E	01	42.972	13,600
162.60-2.42E	01-2.78E	01	43.055	13.536
162.70-2.40E	11-2.54E	01	43.135	13.484
			43.211	13.438
162.80-2.37E	1-2.52E	01	43.211	
162,90-2,33E	91-2.43E	01	43.280	13.396
163.00-2.29E	01-2.34E	01	43.343	13.356
163,10-2.24E	01-2.26E	01	43.397	13,317
163.20-2.19E	91-2.23E	01	43.445	13.279
163.30-2.14E	01-2.135	01	43.486	13.242
			43.520	
163.40-2.09E	1-2.08	01		13.204
163.50-2.04E	01-2.03E	U1	43.549	13.165
163.60-1.99E	01-1.99E	01	43.573	13.127
163.70-1.94E	01-1.94E	01	43.592	13.087
163.80-1.89E	91-1.91E	01	43.6 7	13.047
163.90-1.85E	01-1.87E	01	43.619	13.007
164.00-1.81E	r1-1.84E	U1	43.628	12.965
164.10-1.76E	01-1.80E	01	43.634	12.923
164.20-1.72E	01-1.77E	U1	43.638	12.880
164.30-1.69E	01-1.75E	01	43.639	12.837
164.40-1.65E	11-1.72E	U1	43.640	12.793
164.50-1.61E	01-1.59E	91	43.638	12.749
164.60-1.58E	01-1.57E	01	43.635	12.705
164.70-1.55E	1-1.54	01	43.631	12.660
		- W		
164.80-1.52E	91-1.525	01	43.626	12.616
164.90-1.49E	1-1.595	91	43.620	12.571
165.00-1.46E	01-1.43E	U1	43.613	12.429
165.10-1.43E	01-1.41E	U1	43.6 5	12.404
165.20-1.41E	1-1.385	01	43.597	12.379
165.30-1.39E	1-1.36E	01	43.588	12.354
		-		
165.40-1.36E	01-1.33E	91	43.579	12.330
165.50-1.34E	(1-1.315	01	43.569	12.305
165.60-1.32E	01-1.29E	U1	43.559	12.281
165.70-1.30E	1-1.285	U1	43.549	12.256
165.80-1.29E	r1-1.26€	U1	43.538	12.232
165.90-1.27E	01-1.255	01	43.528	12.208
166.00-1.26E	1-1.23	01	43.517	12.184
166.10-1.24E	01-1.225	01	43.535	12.160
166.20-1.23E	01-1.215	U1	43.494	12.136
166.30-1.22E	01-1.205	01	43.483	12.112

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166.40-1.21E	01-1.19E 0	1 43.472	12,088	
166.50-1.20E		1 43.460	12.064	
166.60-1.19E		1 43.449	12.040	
166.70-1.19E		1 43.438	12.016	
166.80-1.18E		1 43.427	11.992	
166.90-1.18E	01-1.18E 0	1 43.416	11.968	
167.00-1.18E	01-1.18E 0	1 43.405	11.943	
167.18-1.18E	01-1.18E U	1 43.394	11.919	
167.20-1.18E		1 43.384	11.895	
167.30-1.18E	01-1.19E 0	1 43:374	11.870	
167.40-1.18E	01-1.195 0	1 43.364	11.846	
167.50-1.18E		1 43.354	11.821	
167.60-1.19E		1 43.345	11.796	
167.70-1.20E		1 43.337	11.771	
167.80-1.20E		1 43.328	11.746	
167.90-1.21E		1 43.321	11.721	
168.00-1.23E	AND THE RESERVE AND ADDRESS OF THE PARTY OF	1 43.314	11.695	
168.10-1.24E		1 43.307	11.670	
168.20-1.26E		1 43.302	11.643	
168.38-1.27E		1 43.297	11.617	
168.40-1.29E		1 43.294	11.590	
168.50-1.32E		1 43.291	11.562	
168.60-1.34E		1 43.290	11.534	
168.70-1.37E		1 43.291	11.505	
168.80-1.40E		1 43.294	11.475	
168.90-1.43E		1 43.298	11.444	
169.08-1.47E		1 43.306	11.412	
169.10-1.51E		1 43.316	11.378	
169.20-1.55E		1 43.330	11.341	
169.30-1.60E	AT ANY AND ANY AND ANY AND ANY AND ANY	1 43.349	11.301	
169.40-1.65E		1 43.373	11.258	
169.30-1.71E		COMMENT OF STREET, STR	11.209	
169.60-1.77E				
			11.153	
169.70-1.84E		1 43.496	11.086	
169.80-1.91E		1 43.561	11.002	
169.90-1.99E		1 43.645	10.893	
170.00-2.06E		1 43.750		
170.10-2.13E		1 43.882	10.521	
170.20-2.18E		1 44.040	10.188	
170.30-2.20E			9.743	
170.40-2.19E	1-2.935 0		9.302	
170.50-2.15E			8.977	
170.60-2.08E		1 44.765	8.761	
170.70-1.99E	r1-2.24E U		8.615	
170.80-1.89E		1 45.019	8,509	
170.90-1.79E		1 45.110	8.429	
171.00-1.69E	The second second second	1 45.182	8.365	
171.10-1.59E		1 45.238	8.312	
171.20-1.50E	Contract the contract of the c	1 45.283	8.266	361
171.30-1.42E			8.227	
171.40-1.34E		1 45.347	8.191	
171.50-1.26E		1 45.370	8.159	
171.60-1.19E	1-1.23E 0		8.129	
171.70-1.12E	71-1.15E 0		8.101	
171.80-1.05E	1-1.09E U		8.076	38 535
171.90-9.91E		1 45.421	8.051	
172.00-9.33E		0 45.428	8.028	
172.10-8.77E	00-9.04E U		8.006	
172.20-8.24E		0 45.436	7.985	IV-306
172.30-7.73E	00-7.982 0	0 45.438	7.965	

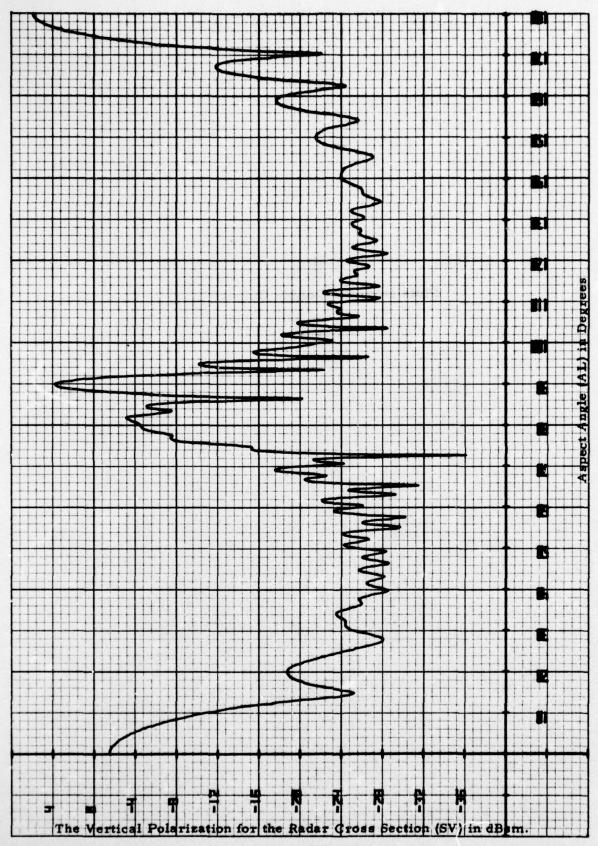
300,300,000

1-10 350 1-66,50 1-17 370 1-66,50 1-1 400 1-66,60 1-17 200 1-66,80 1-17 200 1-66,80

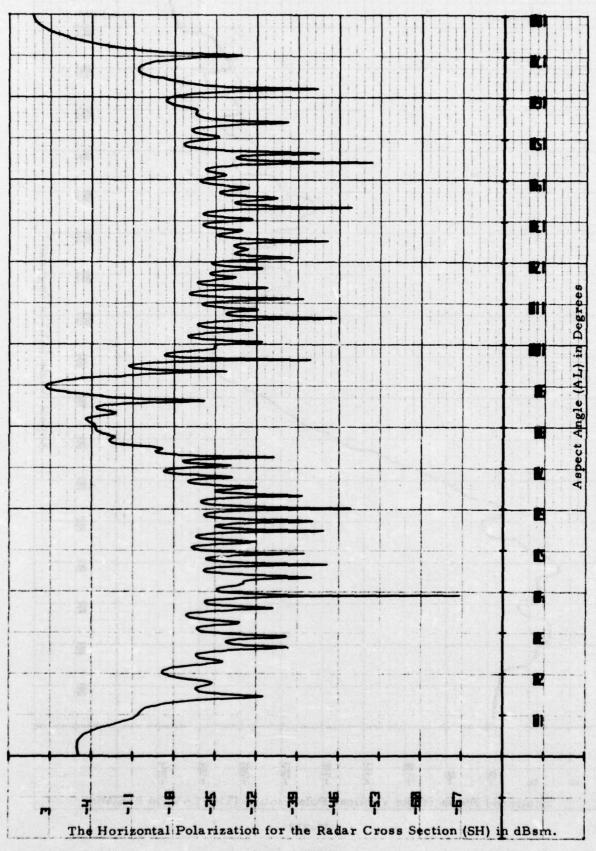
```
172,40-7.25E 00-7.48E UO
                            45,439
                                      7.945
                                      7.926
172.50-6.78E 00-7.01E 00
                            45.439
172.60-6.34E 00-6.56E 00
                            45.438
                                      7.908
172.76-5.91E 00-6.13E 00
                                      7.891
                            45.436
172.86-5.50E 00-5.71E 00
                            45.435
                                      7.873
172.90-5.11E 00-5.31E 00
                            45.432
                                      7.857
173.00-4.74E 00-4.93E 00
                            45.429
                                      7.841
173.10-4.37E 00-4.56E 00
                            45.426
                                      7.825
173.20-4.03E 00-4.21E 00
                            45.422
                                      7.810
173.30-3.69E 00-3.87E 00
                            45.419
                                      7.795
173.40-3.37E 00-3.54E 00
                            45.415
                                      7,780
173.50-3.06E 00-3.23E 00
                            45.411
                                      7.766
                                      7,752
173.60-2.76E 00-2.93E 00
                            45.406
                                      7.739
173.70-2.48E 00-2.64E
                            45.402
                       00
173.80-2.21E 00-2.36E 00
                                      7.725
                            45.397
173.98-1.94E 00-2.09E UD
                                      7.712
                            45.393
174.00-1.69E 00-1.83E UO
                                      7.700
                            45.388
174.10-1.39E 00-1.52E 00
                            45.385
                                      7.689
174.20-1.10E 00-1.23E 00
                            45.379
                                      7,676
174.30-8.18E-01-9.41E-01
                                      7,663
                            45.373
174.40-5.47E-01-6.54E-U1
                            45.366
                                      7,650
174.50-2.83E-01-3.94E-01
                            45.360
                                      7.637
174.60-2.76E-02-1.32E-01
                            45.354
                                      7.625
174.70 2.20E-01 1.22E-01
                            45.347
                                      7,613
174,80 4.61E-01 3.69E-01
                            45.341
                                      7.602
174.90 6.94E-01 6.09E-01
                            45.335
                                      7.590
175.00 9.21E-01 8.42E-01
                            45.329
                                      7.579
175.10 1.14E 00 1.07E
                            45.323
                                      7.569
                       00
175.20 1.35E 00 1.29E 00
                                      7,559
                            45.317
175.30 1.56E 00 1.50E 00
                            45.311
                                      7.549
175.40 1.76E 00 1.71E 00
                                      7,540
                            45.3.5
175.50 1.96E 00 1.91E 00
                            45.299
                                      7.531
                                      7.522
175.60 2.14E 00 2.11E 00
                            45.293
175.70 2.33E 00 2.29E 00
                            45.287
                                     7.514
175.80 2.51E 00 2.48E 00
                            45.282
                                      7.505
175.90 2.68E 00 2.56E 00
                            45.276
                                     7,498
176.00 2.84E 00 2.83E 00
                            45.270
                                      7.490
176.10 3.01E 70 2.99E
                            45.265
                                      7.483
                       00
176.20 3.16E 00 3.16E
                            45.259
                                     7.476
                       00
176.30 3.31E TO 3.31E
                            45.254
                                     7.469
                       00
176.40 3.46E 00 3.46E UD
                            45.249
                                     7.463
176.50 3.60E no 3.51E 00
                            45.243
                                     7.456
176.60 3.74E ng 3.75E 00
                            45.238
                                     7.450
176.70 3.87E 00 3.89E 00
                            45.233
                                      7.445
176.80 4.00E PO 4.02E UO
                            45.228
                                     7.439
176.90 4.12E CQ 4.14E UO
                            45.223
                                     7.434
177.00 4.24E 00 4.27E UD
                            45.219
                                     7.429
177.10 4.35E no 4.38E 00
                                     7.424
                            45.214
177.20 4.46E 00 4.57E
177.30 4.57E 00 4.57E
                       00
                            45.2.9
                                     7.420
                            45.215
                                      7.415
                       00
177.40 4.67E
             00 4.71E UO
                            45.2"1
                                     7.411
177.50 4.76E
             00 4.81E UO
                            45.197
                                     7.448
177.60 4.86E 00 4.9 E 00
                            45.192
                                     7.404
177.70 4.94E 00 4.99E 00
                            45.188
                                     7.400
177.80 5.03E 00 5.08E 00
                            45.185
                                     7.397
177.90 5.11E 00 5.16E 00
                            45.181
                                     7.394
178.00 5.19E 00 5.24E 00
                            45.177
                                     7.392
178.10 5.26E 0
                 5.31= 00
                            45.174
                                     7.389
178.20 5.33E 00 5.38E 00
                                     7.387
                            45.170
```

178.30	5.39E	00	5.45E	00	45.167	7,385
178.40	5.45E	00	3.31E	UO	45.164	7.383
178.50	5.51E	00	5.57E	00	45.161	7.381
178.60	5.56E	00	5.62E	00	45.158	7.379
178.70	5.61E	00	5.67E	00	45.155	7.378
178.80	5.66E	00	5.72E	00	45.152	7.377
178.90	5.70E	00	5.76E	00	45.150	7.376
179.00	5.74E	00	5.80E	00	45.147	7.375
179.10	5.77E	00	5.84E	00	45.145	7.375
179.20	5.80E	00	5.87E	00	45.143	7.375
179.30	5.83E	00	5.89E	00	45.141	7.375
179.40	5.85E	00	5.92E	00	45.139	7.375
179.50	5.87E	00	5.94E	00	45.137	7.375
179.60	5.89E	00	5.95E	00	45.136	7.375
179.70	5.90E	00	5.97E	00	45.134	7.376
179.86	5.91E	00	5.98E	00	45.133	7.377
179.90	5.91E	00	5.98E	00	45.131	7.378
180.00			5.98E	00	45.130	7,379

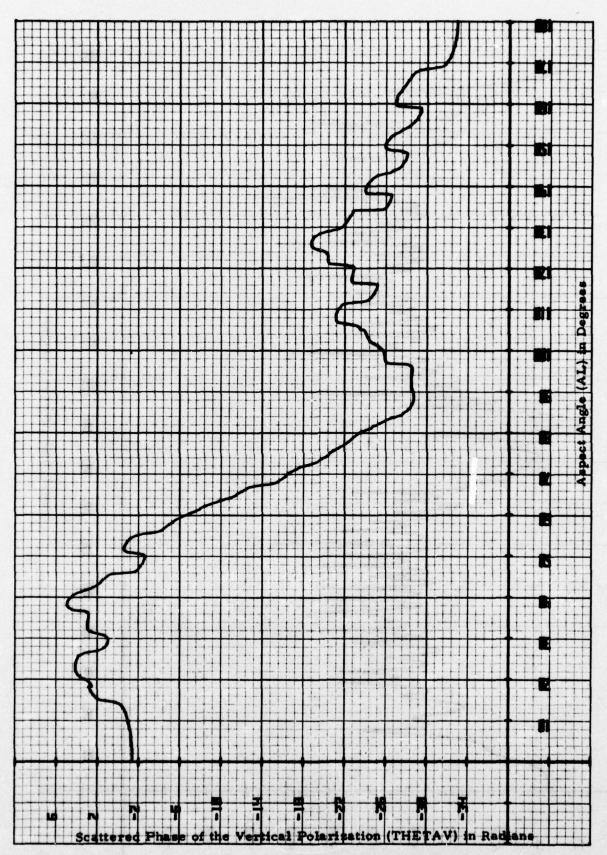
Plots from the Sample Output



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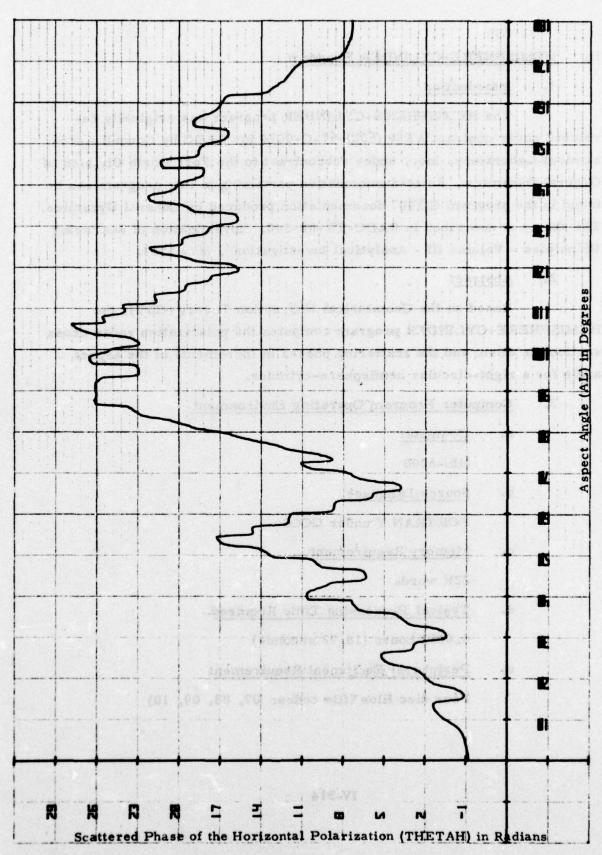


IV-311



IV-312

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IV-313

# H. HEMISPHERE-CYLINDER Program

### 1. Introduction

The HEMISPHERE-CYLINDER program was originally developed under contract AF30 (602)-67-C-0074 for RADC by Cornell Aeronautical Laboratory, Inc., under subcontract to the Fort Worth Division of General Dynamics. Related information pertaining to this program can be found in the program GDT07 documentation produced by General Dynamics. The theory is described in RADC-TR-68-340, "Investigation of Scattering Principles - Volume III - Analytical Investigation", May 1969.

### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the HEMISPHERE-CYLINDER program computes the polarization radar cross sections in dBsm and the scattering phases in increments of the aspect angle for a right-circular hemisphere-cylinder.

# 3. Computer Program Operating Environment

- a. Computer
  HIS-6000
- b. Source Language
  FORTRAN Y under GCOS
- c. Memory Requirement

  22K words
- d. Typical Processing Time Required

  0.0052 hours (18.72 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07, 08, 09, 10)

#### f. Subroutines Used

Subroutines obtained from SXSA subroutine file:

UPDAT

PLTGDT

#### 4. Inputs

The inputs which are needed for the executing of the HEMISPHERE-CYLINDER program are as follows:

A - Radius of cylinder (inches)

H - Half height of cylinder (inches)

CLAM - Wave Length (inches)

DELAL - Increment of aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

## Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

variable 1 name = (value),
variable 2 name = (value),
:
variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be present. Refer to the sample job stream.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the size of the hemisphere-cylinder.

# 5. Output

Output from the HEMISPHERE-CYLINDER program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each increment from the input minimum to input maximum versus the following parameters:

SV - the vertical polarization for the radar cross section in dBsm.

SH - the horizontal polarization for the radar cross section in dBsm.

THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed outputs. That is,

file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle both of which are recorded in each of the above data files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

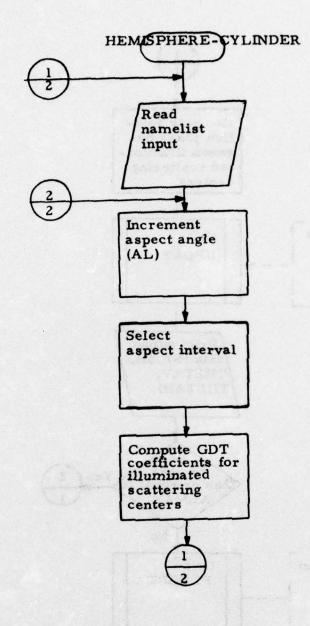


Figure IV-7 Logic Flow Diagram for HEMISPHERE-CYLINDER Program (Page 1 of 2)

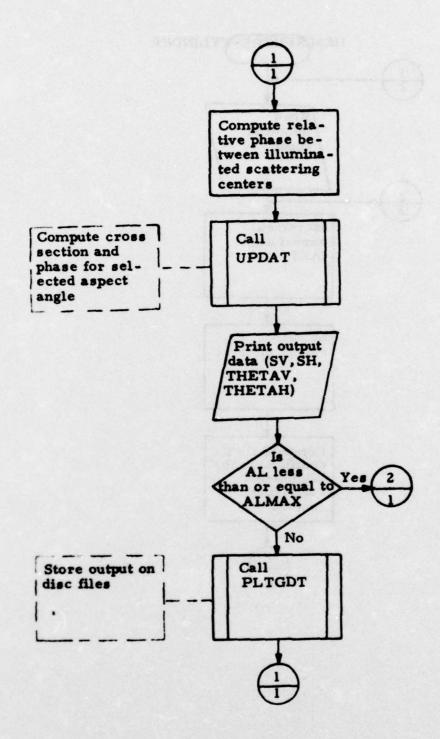


Figure IV-7 Logic Flow Diagram for HEMISPHERE-CYLINDER Program (Page 2 of 2)

```
CLEARY, NEUFFER , 65121104RADC
$
       IDENT
       USERID CLEARYSTHREE
$
       LØVLØAD
5
       OPTION FORTRAN
5
                CLEARY / ØHCY
       SELECT
       SELECT CLEARY / ØXSA
$
       EXECUTE
5
       LIMITS 10,22K,,10K
                07, W, L, CLEARY/STØREI
5
       PRMFL
       PRMFL
                08, W. L. CLEARY/STORE2
$
       PRMFL
                09. W. L. CLEARY / STURES
5
                10. W. L. CLEARY / STØRE4
5
       PRMFL
$
       DATA
 SINPUT
  A=3.16,
  H=5.2565,
  CLAM=1.9754,
  DELAL=0.1,
  ALMIN=0.0,
  ALMAX=90.0,
  AL=0.0 $
       ENDJ0B
```

Sample Job Stream for HEMISPHERE-CYLINDER Program

	RADC 6	35/645	BATCH	JO	
	DER	1	DATE	T	TIME
J 78 - 18			9/9/7	5	1000
PROGRAMME	R		TELEPHO		
SMITH			<b>x4753</b>		
RADC ENGIN			TELEPHO		
CLEAR	Y		<b>x4765</b>		OCSA
	TA	PES AS	SIGNED		
REEL NO.	WRITE	READ	DEN.	141	TITLE
NONE		G A LE	100		rangi)
		3100			(Yes)(A)
	+	-	+-+		REV.
			$\vdash$		
	-		+-+		
PERIPHERA READER DISC. 8 C			PRINTE	OF L	INKS
PROCESSOR	TIME .	05			1
TOTAL RUN		05	PRINT	EDL	10K
	D.	CKER	PECTED		
NO. OF BIN	ARY DEC	KS NO	NE OF C	OMDI	ECKS
Control of the Contro	MC				P COPY
FROMI	FOI		MODE BCD BINAR		NO. OF FILE
S	PECIAL C	PERAT	OR INSTR	200	IONS
ADC FORM					e il regulred

HIS-6000 Batch Submittal Form
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Source Listing of the HEMISPHERE-CYLINDER Program

The same of the sa

```
PROGRAM HEM-SHERE CYLINDER (SHCY)
                                                                                      00001000
                                                                                     00001010
       COMMON/NAM/YY1(2000), YY2(2000), YY3(2000), YX4(2000), XX(2000), 11
                                                                                     00001020
                                                                                     00001030
       DIMENSION XPAR(8), YPAR(8)
       COMPLEX EJR1, EJR2, EJR9, EJR11, ZV, ZVC, ZH, ZHCISSV, SSHIRSMBSV,
                                                                                      00001040
      WASHIST/INPUT/A, H, CLAM, DELAL, ALMIN, ALMAX, AL
                                                                                     00001050
                                                                                     00001060
 2000 FORMAT(1H1,////4 X, "INPUTS - HEMI-SHERE CYLINDER",
                                                                                     00001070
     #72//29X. RADIJS OF CYLINDER IN INCHES (A) 1,F14,7,
                                                                                     00001080
                                                                                     00001090
      4/1/29X. WAYE LENGTH IN INCHES (CLAM) = 1.F14.7.
                                                                                     00001100
     67//20x. INCREMENT IN ASPECT ANGLE IN DEGREES (DELAL) = ',F14.7, 67//20x. MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = ',F14.7, 67//20x. MAXIMUM ASPECT ANGLE IN DEGREES (ALMAX) = ',F14.7,
                                                                                     00001110
                                                                                     00001120
                                                                                     00001130
     •/(/29x, 'ASPECT ANGLE IN DEGREES (AL) = ',F14,7,/1H1)
                                                                                     00001140
 2001 FORMAT(3x, 'AL', 3x, 'SV(DBSM)', 1x, 'SH(DBSM)', 2x,
                                                                                     00001150
      e) THETAV', 2x, 'THETAH'//)
                                                                                     00001160
 2002 FORMAT(1x, F7.2, 1P2E9.2, 0P2F8.3)
                                                                                     00001170
                                                                                     00001180
C
             INPUT - NAMELIST - INPUT
C
                                                                                     00001190
       A . RADIUS OF CYLINDER (INCHES)
                                                                                     00001200
C
CCC
        H = HALF HT. OF CYLINDER (INCHES)
      CLAM = WAVE LENGTH (INCHES)
DELAL = INCREMENT IN ASPECT ANGLE (DEGREES)
ALMIN = MINIMUM ASPECT ANGLE (DEGREES)
                                                                                     00001220
                                                                                     00001230
C
                                                                                     00001240
       ALMAX MAXIMUM ASPECT ANGLE (DEGREES)
C
                                                                                     00001250
          AL" ASPECT ANGLE (DEGREES)
                                                                                     00001260
    1 READ(05, INPUT)
                                                                                     00001270
                                                                                     00001280
       WRITE(06.2000) A.H.CLAM, DELAL, ALMIN, ALMAX, AL
       11 . 0
                                                                                     00001290
       THETA = U.
                                                                                     00001300
       RMV2 = 0.
                                                                                     00001310
       RHH2 = 0.
                                                                                     00001320
       BBLC1 . . . 254 . . 254
                                                                                     00001330
       P1 * 3.14159265
                                                                                     00001340
       DTR = PI/180.
                                                                                     00001350
                                                                                     00001360
       RTD = 180./PI
       DELAL . DELAL-DTR
                                                                                     00001370
       ALMIN - ALMIN-DTR
                                                                                     00001380
       ALMAY - ALMAX-DTR
                                                                                     00001390
       AL . AL-DTR
                                                                                     00001400
       ALO . AL
                                                                                     00001410
       CK . 2. . PI/CLAY
                                                                                     00001420
       C1 * P1/2.
                                                                                     00001430
       C2 * P1/4.
                                                                                      00001440
       C3 * 2. . P1/3.
                                                                                     00001450
       C4 = 2. . CK.A
                                                                                     00001460
       C$ = 2. - CK+H
                                                                                     00001470
       c6 = 2./3.
                                                                                     00001480
       67 = 4./3.
                                                                                     00001490
                                                                                     00001500
       C10 = SIN(C3)
                                                                                     00001510
```

```
c11 = 1./(c9-1.)
                                                                           00001520
   CNSBC = 2.2548279
                                                                          00001530
   60 TO 95
                                                                          00001540
10 11 = 11+1
                                                                          00001550
   C12 = C4-SIN(A_)
                                                                          00001560
   C13 . C5+COS(A-)
                                                                          00001570
   IF (C13. LE. CNS3C) GO TO 30
                                                                          00001580
   C14 = C6+C10+S3RT(A/CK)
                                                                          00001590
   CEAUS2 = CK+A
   IF (AL . EQ . 0. ) GO TO 15
   CCAUS1 = 1./SIN(AL)
                                                              00001630
00001640
00001650
   CEAUS = CCAUS1
   IF (CCAUS2.CCAJS1) 15,15,25
15 CCAUS = CCAUS2
                                                                00001660
00001670
25 CONTINUE
   C15 = SORT(CCAJS)
                                                              00001680
   RSSS = +SORT(PI)+A
   C17 = 1./(C9-C)S(C7+AL))
                                                           00001690
00001700
   RS2SV = C14+C15+(C17-C11)
                                                              00001710
00001720
   R$2SH = C14+C15+(C17+C11)
   RH1 =-C4-C13
   RH2 = C2-C12+C13
                                                                     00001730
   CSRH1 = COS(RH1)
SNRH1 = SIN(RH1)
                                                                      00001740
                                                                          00001750
   CSRH2 = COS(RH2)
                                                                       00001760
   SNRH2 = SIN(RH2)
                                                                          00001770
   EJR1 = CMPLX(CSRH1, SNRH1)
                                                                          00001780
   EJR2 = CMPLX(CSR+2, SNRH2)
                                                                          00001790
   ZV = RSSS*EJR1 +RS2SV*EJR2
ZM = RSSS*EJR1 + RS2SH*EJR2
                                                                          00001300
                                                                          00001310
   60 To 40
                                                                          00001320
30 DEL = C1-AL
                                                                          00001830
   C23 = SQRT(A/(CK+COS(DEL)))
                                                                          00001840
   C24 = 1.0
C25 = C5+SIN(DEL)
                                                                          00001350
                                                                          00001360
   IF (DEL . EQ . .) GO TO 45
C24 = (SIN(C25))/C25
                                                                          00001370
                                                                          00001880
45 CONTINUE
                                                                          00001890
   RH11 = C1
                                                                          00001900
   CSRH11 = COS(R+111)
                                                                          01001910
   SNRH11 = SIN(R411)
                                                                          00001920
   EJR11 = CMPLX(CSRH11, SNRH11)
                                                                          00001930
   RSMBSV=(-C23+C5+C24+EJR11-C7+C1 '+C23+C11+COS(C25))
                                                                          00001940
   R$4B$H=(-C23+C5+C24+EJP11+C7+C1 +C23+C11+C0$(C25))
                                                                          00001950
   C26 = C4+COS(DEL)
                                                                          0(0)1960
   RH6 = -C26+C2
                                                                          00001970
   CSRH6 = COS(RH6)
                                                                          00001780
   SNRH6 = SIN(RH5)
EJR9 = CHPLX(CSR46, SNRH6)
                                                                          00001990
                                                                          0002000
   ZV = RSMBSV+EJR9
                                                                          00002010
   IH = RSMASHOEJR9
                                                                          00002020
   GO TO 40
                                                                          00002030
```

### 294FT 01 10-06-75 14.754

```
40 290 . CONJG(ZV)
                                                                                                               00002040
       THE . CONJECTH)
                                                                                                               00002050
       SSH = ZHOZYC
                                                                                                               00002060
                                                                                                               00002070
       REALSV = REAL(SSV)
                                                                                                               00002080
      REALSY = REAL(SSY)

REALSH = REAL(SSH)

RELSV1=REALSV=RELC1

RELSV2 = 10.04.0G10(RELSV1)

RELSH1 = REALSH=RELC1

RELSH2 = 10.04.0G10(RELSH1)

RMV1=ATAN2(AIMAG(ZV), REAL(ZV))

CALL UPDAT(RHV1, RHV2, PI, THETAV)
                                                                                                               00002000
                                                                       00002100
00002110
00002120
00002130
00002140
00002150
                                                                                                               00002100
       RWH1=ATAN2(AIMAG(ZH)) REAL(ZH))
CALL UPDAT(RHH1, RHH2, PI, THETAH)
      WRITE(6,2002) AL, RELSV2, RELSH2, THETAV, THETAH

YY1(II) = RELSV2

YY2(II) = RELSH2

YY3(II) = THETAV

YY4(II) = THETAV
                                                                                                               00002160
                                                                                                               00002170
                                                                                                               00002180
                                                                                                               00002190
                                                                                                               00002200
                                                                                                               00002210
                                                                                        00002220
00002230
00002240
00002250
00002260
00002270
                                                                                                               00002220
        YY4(11) # THETAH
        XX(11) . AL
       AL . DTROAL
       ATNDX=11
      ATMDX=II
AU=AIMDX=DELAL +ALO
IF (AL-ALMAX) 10.10.200
GONTINUE
                                                                         00002280
00002300
00002310
00002320
200 CONTINUE
      BALL PLTGDT
        60 TO 500
  95. CONTINUE
                                                                                                               00002320
                                                                                                          00002330
      WRITE(6,2001)
                                                                      00002330
00002340
00002350
00002360
00002370
09002380
      THETAV = 0.
      THETAH = 0.
500 STOP
      END
```

Sample Input for the HEMISPHERE-CYLINDER Program as Output

RECORDED BRIDGESERS & STUTES

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property in the total transfer at operat four

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D WINGS IN BERRET IN THE POST OF

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distribution of the secretary as a contract to the second terms of the second terms of

## INPUTS - MENI-SHERE CYLINDER

RABIUS OF CYLINDER IN INCHES (A) 3.1600000

NALE NEIGHT OF CYLINDER IN INCHES (H) = 5.2566000

NAVE LENGTH IN INCHES (CLAM) = 1,9754000

INTERPRETE IN ASPECT ANGLE IN DEGREES (DELAL) = 0.1000000

MINIMUM ASPECT ANGLE IN DEGREES (ALMIN) = 0.

HAZIMUM ASPECT ANGLE IN DEGREES (ALMAX) = 90.0000000

ASSECT ANGLE IN DEGREES (AL) = 0.

Sample Output for HEMISPHERE-CYLINDER Program

X 14.2 x

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EVALUE A

CERTAIN.

440 365

ESE SE

240.24 Tex. 24 607 Ex

AND REPLY TO SEE MANUFACTURE

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To grantero actioned 表示:"我就是这样中的一位在企业的由心意。" To be a common good twee

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主持,我是特别的人们,不是有关的人员。是 The MCD PARTS GREAT AGE . S

\$2\*\*\*\*\* D \$00.1407.1

RENEFELD BEEN SON. 910 Fare 220 1 400 1

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**有更美。老** 

1. 接受 大量

AL SYEDBEN) SH(SDSH)	*****	THETAH	
01.698 01-2.478 01	3.608	63:127	
0,10-1,698 01-2,168 01	3,008	43, 102	
0.20-1.692 01-2.452 01	3,608	+3,079	
0.30-1.692 01-2.448 01		•3,050	
0.40-1.692 01-2.733 07	3,609	+3,033	
0.50-1.692 01-2.418 01	3,609	63,012	
0.70-1.69E 01-2.08E 01	3.610		
0.80-1.692 01-2.672 01	3:011	-2.954	
0.90-1.692 01-2.051 01	3.612	-2,936	
1.00-1.692 01-2.048 01	3.613	-2.920	
1.10-1.692 01-2.028 01	3.614	+2.905	
1.20-1.692 01-2.008 01	3.615	-2,891	
1.20-1.692 01-1.999 01	3,616	-2,878	
1.40-1.692 01-1.978 0	3.010	-2,866	
1.50-1.692 01-1.955 01	3.619	42,855	A state of the second contract of the second
1.70-1.69E 01-1.928 01	3,622	+2.845 +2,836	
1.40-1.692 01-1.908 01	3,624	-2.020	
1.00-1.69E 01-1.88E-01	3,626		
2.00-1,692 01-1.869 01	3.028	-2. B14	
2,10-1,692 01-1,851 01	3,630	-2.809	82-0192389
2.20-1.692 01-1.434 0	3,632	92,004	
2.30-1.692 01-1.818 01	3,635	<b>42.800</b>	
2.40-1.69E 01-1.79E 01 2.50-1.69E 01-1.78E 01	3,637	-2.797 -2.794	
2.60-1.692 01-1.762 01	3.642	2,792	
2.70-1.692 01-1.742 01	3.645	62,791	
2.80-1.692 01-1.738 01	3,648	-2.790	
2.90-1,69E 01-1.718 01	3.651	·2.790	
3.00-1.692 01-1.702 01	3.654	-2.791	
3. 10-1,692 01-1.688 01	3,057	42.792	
3.20-1.692 01-1.672 01	3.660	2.793	
3.30-1.692 01-1.652 01 3.40-1.692 01-1.642 01	3,664	62.795 62.797	
3.50-1.692 01-1.622 01	3.671	-2.800	
3.50-1.692 01-1.612 01			***************************************
3.70-1.692 01-1.608 01	3,678	-2.806	
3.80-1.69E 01-1.59E 01	3.082	-2.810	
3.90-1.69E 01-1.57E 07	3.686	-2.814	
4.00-1.692 01-1.568 01	3.090	-2.819	
4.10-1.69E 01-1.55E 01	3,694	+2,824	
4.30-1.692 01-1.548 01	3, 102	+2.829 +2.834	
# #0-1.692 01-1.524 01	3:107	62,839	
4.50-1.69E 01-1.51E 01	3, 111	-2.845	
4.60-1.692 01-1.508 01	3,116	42,851	
4.70-1,692 01-1.498 01	3, 121	62,857	
4. \$0±1,692 01=1.888 01	3,126	-2,863	
4.90-1.692 01-1.478 01	3, 131	-2.870	and the state of t
5.00-1.692 01-1.668 01	3, 136	-2.877	
5, 10-1, 698 01-1.458 01	3, 141	+2,883	
5.20-1.692 01-1.452 01 5.30-1.692 01-1.442 01	3,146	+2,890 +2,897	
5.40-1.692 01-1.632 01	3. 157	2.905	
5.50-1.692 01-1.432 01	3, 162	62,912	
5.60-1.692 01-1.428 01		-2.919	W. 330
			IV-328

		10-						44	2		. 1.	1 11		007
-				072	0	1-1		1	U	3			741	14
2		0	11.	69E	0	-1			01		. 18		72.	927
5		0	1.	69E	0	-1	. 4	12	0	3	. 46	15	-2.	944
6	. (	0-	1	69Z	0	-1			01	•	. 19		40'	952
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		10-	١,	69E	0.	1-1	. 4	02	3	3	. 15	8	.2.	961
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7	1.	00	1.	69E	0	1-1		18	01	1	. 24	7	-1	028
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	•	10-	11.	69E	0	1-1		15	0				.3.	035
7		20.	1.	69E	01	1-1		12	01	1	. 27	11	•3.	041
9		10-	1	69E	0	- 1			01		. 27		- 2	047
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7	A	0	11.	69E	01	1-1	- 4	21	0 1	3	. 29	13	-3.	059
7		10		400	1				01				1	446
		-		692	0	1-1		- makes - page 1			30			065
7		0-	11.	69E	01	1-1	. 4	32	01	3	. 30	8	+3.	070
7		10-	1'-	69E	01	-1	- 4	36	01	1	.31	6	41	070
9		10-		400	~								7 7	404
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8		30	11.	69E	01	1-1	. 4	61	01	3	. 35	7	.3.	096
		10-	4	69E	04	-1			01		16			096 100 103
				440	9					3	. 36	9	-31	100
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8	. (	0	1.	692	01	-1	- 4	90	01	3	, 38	2	.1.	105
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8		0	1.	69E	01	-1	. 5	01	01	3	. 39	9	-3.	109
8		0-	1.	69E	01	-1	. 5	10	09	1	. 40	8	-1	110
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9		0=	11.	69E	01	-1	. 5	32	01	3	. 42	6	-3.	112
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9		0-	1.	69E		-1			01	1	. 46	4	- 1	107
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				69E		-1			01		. 47		.3.	107
9	. 7	0	1.	69E	01	-1	. 6	02	01	3	. 48	3	·3.	102
9		10-	1.	69E	04	-1			01		. 49	3	-3	098
				40-									•3,	
,		0	7,	DAE	רט	-1			01		. 50	3	.3.	093 087 081
10	. 0	0-	1.	69E	01	-1	. 6	52	01	3	.51	3	•3.	087
10	7	0-	1	69E	04	-1			07	1	. 52	3	13"	081
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				69E	01	-1	. 6	38	01	3	. 53	3	-3.	073
10	. 3	0=	1.	69E	01	-1	. 6	92	01	3	. 54	3	-3.	065
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10		0-	1.	69E		-1			34	3	.56 .57	4	•3.	045
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40		10:	-	69E					3 7			4		033
10		0		0 3 5		-1			01	3	. 20	0	.30	021
10		0-	1.	70E	01	-1	. 7	72	01	3	.59	7	.3.	007
10	. 0	0-	1	70E		-1			01	1	. 60	8	+2.	991
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11	. 1	0-	1.	70E	01	-1	. 8	32	01	3.	. 63	0	.2.	956
1 1	3	0-	1	70E		-1			01		. 64			
: :		-		-						3		•	7.57	330
				70E		-1			01	3	. 65	3	.5.	936
1 1	. 4	0-	1.	70E	01	-1	. 8	82	01	3	.66	5	.2.	893
				70E		-1			01		67		15	868
1 1	• =	0-		102	01	- 1	. 0	72	04	3	. 0 /	0	+4.	900

44 40-4 900 04-4 044 04					
11.50-1.70E 01-1.918 01	3,700	+2,042 +2,015			
11.80-1.708 01-1.938 01	3,912	-2,786			
11.90-1.708 01-1.958 01	3.724	-2.755			
12.00-1.708 01-1.968 01	3.737	42,723			
12.10-1.708 01-1.978 01	3.749	-2.689			
12.20-1.702 01-1.982 01	3.762	÷2',655			
12.30-1.702 01-1.998 01	3.774	+2,619			
12.80-1.708 01-1.998 01	3.787	62,582			
12.50-1.702 01-2.004 01	3.800	-2.545			
12.60-1.702 01-2.608 01	3.813	42,507			
12.70-1.702 01-2.002 01	3.826	-2.469			
12.00-1,708 01-2.604 01	3,639	-2.431			
12.90-1.702 01-1.998 01	3,852	-2,393			
13.00-1.702 01-1.592 01	3.865	-2,356			
13.10-1.702 01-1.988 01	3,879	•2.319	-		
13.20-1.708 01-1.978 01	3.892	-2,283			
13.30-1.702 01-1.969 01	3,906	-2,248			
13.40-1.708 01-1.958 01	3.920	2,214			
13.50-1.702 01-1.942 01	3,934	62, 182			
13.70=1.70E 01=1.938 01 13.70=1.70E 01=1.918 01	3.962	-2.150 -2.121			
13.80-1.702 01-1.904 01	3.976	-2.092		BEEL THE D. T.	1000
13.90-1.708 01-1.688 01	3,990	-2,065			
14.00-1.702 01-1.672 01	4.604	-2.040			TO THE OWNER.
14.10-1.702 01-1.858 01	4.619	-2.016			
14.20-1.708 01-1.438 01	4.633	-1.994			
14.30-1.702 01-1.828 04	4.648	-1.972			
14.40-1.702 01-1.802 01	4.063	-1.953			
14.50-1.702 01-1.782 01	4.678	-1.934			
14.80-1.708 01-1.778 01	4.092	-1.917			STATES.
14.70-1,702 01-1.758 01	4, 107	-1,901			
14. 0-1.70E 01-1.73E 01	6.122	-1.886			
14.90-1.692 01-1.729 01	4, 137	-1.872			44 - 20
15.00-1.692 01-1.703 01	4, 153	-1.859			
15. 10-1.692 01-1.694 01	4.168	-1.847		-	
15.20-1.692 01-1.672 01	4. 183	-1.836			
15.30-1.692 01-1.662 01	4,199	-1,826			
15.40-1.69E 01-1.64E 01	4.230	91.816			
	and the second s	-1.799			
15.60=1.69E 01=1.62E 01 15.70=1.69E 01=1.61E 01	4.245	-1.791			
15.80-1.692 01-1.602 01	4.277	41.784		795,7000	
15.90-1.692 01-1.582 01	4,293	-1.778			
16.00-1.69E 01-1.57E 01	U. 309	-1.772			******
16.10-1.692 01-1.562 01	4.325	-1.766			
16.20-1.692 01-1.562 01	U:301	61.761		***	4-9-1-600
16.30-1,692 01-1,552 01	4.357	-1.756			
16.80-1.692 01-1.544 01	4.373	61.751			
16.50-1.692 01-1.532 01	4,389	41,747			
16.60-1,692 01-1.538 01	4.406	-1.743			
16.70-1.692 01-1.522 01	4.422	÷1.739			
16. 0-1,692 01-1.518 01	4,638	41,735			
16.90-1.692 01-1.512 04	4.455	•1,731			
17.00-1.692 01-1.512 01	4.472	-1,728			
17.10-1.692 01-1.508 01	4,488	91,124			
17.20-1.692 01-1.508 01	6.505	01.721			
17.40-1.692 01-1.508 01	4.522	01.717	mention of the second		
17.40-1.692 01-1.508 01	4.539	41.714	IV-330		

17.50-1.69E	01-1.50	01	4,556	+1.710
17 60-1 60P	01-1.50	01	4 473	44 707
17.60-1.69E	04-4	54	1 TOA	703
17.70-1.092	01-1.502		4.573 4.590 4.608	+1.707 -1.703 -1.699
17.80-1.69E	01-1.50	01	4.608	•1.099
17.90-1.69E	01-1.508	Ú!	4.625	41.695
18.00-1.69E	01-1.30	01	4.642	-1.691
18. 10-1.69E	01-1.512	01		-4 687
			4.660	+1.687
18.20-1.69E	01-1.512	01	4.678	-1.002
18.30-1.692	01-1.512	U	4.678 4.695 4.913	+1.677
18.40-1.69E	01-1.522	01	4.713	41.672
18.50-1.69E	01-1.532	31	6.731	-1.682 -1.677 -1.672 -1.666
		01	4.749	-1.660
18.60-1.69E	01-1.532			-1.660
18.70-1.69E	01-1.542	01	4.767	-1.653
18.80-1.69E	01-1.552	01	4.786	-1.646
18.90-1.69E	01-1.562	10	4.804	•1.639 •1.630 •1.621
19.00-1.69E	01-1.362	01	4.823	-1 630
				-4 624
19.10-1.69E	01-1.57	01	4.841	1.021
19.20-1,692	01=1.592	01	4.860	-1,612
19.30-1.69E	01-1.602	01	4.879	-1.601
19.40-1.69E	01-1.612	01	4.898	-1,590
19.50-1.69E	01-1.622	04	4 917	-1.578
10.50-1.602			4.917	+1.578 +1.565 +1.551
19.60-1.69E	01-1.632	01	4,937	-1.303
19.70-1.69E	01-1.652	01	4.956	+1.551
19.80-1,69E	01-1.662	01	4.976	-1.536
19.90-1.69E	01-1.68#	01	4.996	-1.520
20.00-1.692	01-1.692	01	5.015	-1,502
20 10-11035				11444
20.10-1.70E	01-1.71	01	5.635	
20.20-1.70E	01-1.72	01	5.056	-1.484 -1.463 -1.442
20.30-1.70E	01-1.742	01	5.676	-1.442
20.40-1.70E	01-1.762	01	5.096	-1,419
20.50-1.70E	01-1.772	01	5.117	-1.394
	01-1.792	01		-1,367
20,60-1,70E			5,138	330
20.70-1.702	01-1.802	01	5.159	-1.339 -1.309
20.80-1.70E	01-1.822	01	5.180	-1.309
20.90-1.70E	01-1.832	01	5.201	-1.278
21.00-1.70E	01-1.852	01	5.222	-1.244
21.10-1.70E	01-1.862	51	5.244	-1.209
				- 4 4 7 2
21.20-1.70E	01-1.88	01	5.265	-1.172
21.30-1.702	01-1.892	01	5.287	-1.133 -1.093
21.40-1.70E	01-1.902	01	5.309	-1.093
21.50-1.70E	01-1.912	91	5.331	-1.051
21.60-1.70E	01-1.91	01	5.353	-1.009
21.70-1.70E	01-1.922	01	5.375	-0.965
				-0.004
21.80-1.70E	01-1.922	01	5.398	-0.921
21.90-1.70E	01-1.932	1	5.420	-0.876
22.00-1.70E	01-1.932	01	5.443	-0.830
22.10-1.70E	01-1.922	01	5.456	-0.785
22.20-1.70E	01-1.928	01	5.488	-0.741
			5.511	-0.697
22.30-1.70E	01-1.912	.1		
22.40-1.70E	01-1.902	01	5.534	-0.653
22.50-1.70E	01-1.902	31	5.558	+0.611 -0.571
22.60-1.70E	01-1.882	01	5.581	-0.571
22.70-1.70E	01-1.872	31	5.604	-0.531
22.80-1.70E	01-1.862	01	5.627	-0.493
22 00-4 702			5.651	
22.90-1.70E	01-1.842	31	3.631	-0.457
23.00-1.70E	01-1.832	01	5.674	-0.422
23.10-1.70E	01-1.812	01	5.698	-0.389
23.20-1.70E	01-1.802	01	5.721	-0.358
23.30-1.702	01-1.78	54	5.745	-0.328
		THE RESERVE		

23.40-1.702	01-1.76	01	5,768	+0;300	
23.50-1.70E	01-1.75	01	5.792	-0.274	
23.70-1.70E	01-1.71	04	5.839	-0.225	
23.80-1.702	01-1.70	01	5.863	·0.225	
23.90-1.692	01-1.688	01	5.887	·0.182	
24.00-1.692	01-1.67	01	5.011	-0.162	
24.10-1.69E	01-1.65	01	5,935	-0.144	
24.30-1.692		01	5,982	-0.109	
24.40-1.692	01-1.619	10	6.606	÷0.109	
24.50-1.692	01-1.60	01	6.030	-0.079	
24.60-1.692	01-1.59	01	6.054	-0.064	
24.70-1.69E	01-1.58%	01	6.678	-0.050	
24.90-1.692	01-1.568	01	6, 125	-0.025	
25.00-1.69E	01-1.558	10	6. 149	-0.013	
25.10-1.68E	01-1.55	01	6.173	-0.001	
25.20-1.682	01-1.542	01	6.197	0.010	
25.30-1.68E	01-1.53	01	6,221	0.022	
25.50-1.68E	01-1.538	01	6.245	0.043	
25.50-1.68E 25.60-1.68E	01-1.52	01	6.294	0.054	
25.70-1.682	01-1,528	01	6,294	0.064	
25.00-1.682	01-1.52	01	6.342	0.075	
25.90-1,682	01-1,521	01	6,367	0.085	
26.00-1.68E	01-1.52	01	6.391	0.106	
28.20-1.68E	01-1.52	10	6.840	0.117	
26.30-1.682	01-1.53	01	6.465	0.129	
26.40-1.68E	01-1.53	01	6.489	0.140	
26.50-1.68E	01-1.548	01	6,514	0, 152	
26.50-1.68E 26.70-1.68E	01-1.54	01	6.539	0.164	
26.80-1.68E	01-1.56	ŏi	6.590	0.190	
26,90-1,692	01-1.578	01	6.615	0.204	
27.00-1.692	01-1.57	01	6.841	0.219	
27.10-1.69E	01-1.584	01	6.666	0.234	1
27.20-1.69E 27.30-1.69E	01-1.60	01	6.692	0.250	
27.40-1.692	01-1.62	10	6.745	0.286	
27.50-1.69E	01-1.638	01	6.771	0.305	
27.60-1.692	01-1.652	10	6.798	0.326	
27.70-1.69E	01-1,662	01	6.825	0.347	
27.80-1.69E 27.90-1.70E	01-1.68	01	6.852	0.370	
28.00-1.702	01-1.498	01	6.906	0.421	
28.10-1,702	01-1.73	01	6.934	0.449	
28,20-1,702	01-1.74	01	6.962	0.479	
28.30-1.702	01-1,76	01	6,990	0.510	
28.8061.702	0101,78	01	7.018	0.579	
28.50-1.70E 28.50-1.70E	01-1.818	01	7.075	0.617	
28.70-1.702		01	7.104	0.657	
28.80-1.702		ő	7. 133	0.698	
28.90-1.712	01-1.851	01	7, 162	0.742	1
29.00-1.712	01-1.86	01	7. 192	0.788	
29,10-1,712	01-1.88	01	7.221	0.835	
29.20-1.712	01-1,88	01	7.251	0.884	IV-332

5:1, 1=10 301, 1=11, 35 5:1, 1=10 301, 1=01 35 3:1, 1=10 301, 1=01 35 -5:1, 1=10 301, 1=01 35

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			41	
29.40-1.71E	01-1.895	01	7.281	0.934
29.40-1.71E	01-1.90	01	7.311	0.986
29.50-1.712	01-1.90	01	7.341	1.038
29.60-1.71E	01-1.908	01	7.372	1.090
29.70-1.71E			9 862	4 443
29. 1001. 715	01-1.90	01	7.402	1,143
29.80-1.71E	01-1.90	01	7.433	1.195
29.90-1.712	01-1.892	01	7.463	1.247
29.90-1.71E	01-1.882	01	7.463	1,297
30.10-1.71E	01-1.675	01	7.525	1,347
				1 205
30.20-1.71E	01-1.862	01	7.556	1.395
30.30-1.71E	01-1.852	01	7.586	1.441
30.40-1.71E	01-1.83	01	7.617	1.485
30.50-1.70E	01-1.82	39	7.648	1.528
30.50-1.70E	01-1.80	01	7.648	1.568
30.0001.708			1.073	
30.70-1.70E	01-1.782	04	7.710	1.607
30.80-1.70E	01-1.778	01	7.741	1.643
30.90-1,70E	01-1.752	01	7.771	1.678
31.00-1.70E	01-1.732	01	7.802	1,711
31.10-1.70E	01-1.722	01	7 033	1.742
31.10-1.702			7.833	1.742
31.20-1.70E	01-1.70	01	7.803	
31.30-1.69E	01-1.682	04	7.894	1.799
31.40-1.69E	01-1.67	01	7.924	1,826
31.50-1.692	01-1.652	01	7,955	1.851
				1,875
31,60-1,69E	01-1.64	01	7,985	1,875
31.70-1.69E	01-1.622	31	8.015	1,897
31.80-1.69E	01-1.612	01	8.045	1.919
31.90-1.69E	01-1.602	01	8.675	1.939
32.00-1.68E	01-1.592	01	8.105	1.959
			. 125	. 078
32.10-1.68E	01-1.582	01	8, 135	1.978
32,20-1,68E	01-1.572	01	8.165	1,996
32.30-1.68E	01-1.562	01	8. 195	2.014
32.40-1.68E	01-1,55	01	8.225	2.031
32.50-1.68E	01-1.552	01	8.255	2.048
32.60-1.68E	01-1.542	01	8.284	2.065
32.70-1.68E	01-1.542	01	8.314	2.081
32.80-1.68E	01-1.532	01	8.344	2.097
32.90-1.682	01-1.532	01	8.374	2.113
33.00-1.68E	The state of the s		8.403	2.128
	01-1.538	01		
33.10-1.68E	01-1.532	04	8.433	2. 144
33.20-1.68E	01-1.532	01	8.463	2.160
33.30-1.68E	01-1.53	01	8.493	2.176
33.40-1.68E	01-1.542	01	8.523	2.193
33.50-1.68E	01-1.542	01		2.210
			8.554	2.210
33.60-1.68E	01-1.552	01	8.584	2.227
33.70-1.68E	01-1.552	01	8.615	2.245
33.80-1.68E	01-1.562	01	8.645	2.263
33.90-1.682	01-1.572	01	8.676	2,282
	01-1.582		8.707	2 202
34.00-1.68E		01	0.707	2.302
34.10-1.68E	01-1.592	01	8.739 8.770 8.802	2,322
34.20-1.68E	01-1.602	01	8.770	2.344
34.30-1.69E	01-1.612	01	8.802	2.367
34.40-1.69E	01-1.632	01	8.834	2.390
				3 444
34.50-1.692	01-1.642	91	8.866	2.416
34.60-1.69E	01-1.662	01	8.899	2.442
34.70-1.692	01-1.672	01	8.931	2.471
34.80-1,70E	01-1.692	01	8,965	2,500
34,90-1.70E	01-1.712	01	8.998	2.532
			0.430	2,332
35.00-1.70E	01-1.72	01	9.032	2,566
35.10-1.70E	01-1.742	01	9.066	2.602

							7		
35	30-	1.7	OE C		1.76			2,640	
35	.00-	1.7	12 0		79		9.170	2.732	
35	. 80-	1.7	1E 0	1-	1.81	1 0	9.205	2.767	
35	. 60-	1.7	12 0	1-		0	9.241	2,815	
35	70-	1.7	15 0	10	1.84	0		2.864	
35	90-	1.7	12 0		1.07		9. 940	2,970	
		1.7		10	. 66	0	9,385	3.026	
36	10	1.7	22 0	1-	1.68	1 0	9.422	3.083	
36	20-	1.7	3E 0		1.49		9.459	3,141	
30	30-	1.7	2E 0		1.89		9,496	3.141 3.200 3.260	
36	80-	1.7	2E 0		1.09			3,319	
36	80-	1.7	28 0		. 88		9.608	3,378	-
36	70-	1.7	2E 0	1-	1.88	1 0	9.645	3.436	
36	. 10-	1.7	1E 0		.87		9.682	3.493	
30	10-	1.7	1E 0		. 45		9,720	3,547	
37	10-	1.7			1.84			3.600	
		1.7			1.01		9,832	3.700	
37	30-	1.7	1E 0		1.79			3.747	
37	40-	1.7	12 0	1-	1.77	1 01	9.906	3.791	
37	50-	1.7	0 30	10	,76	0	9,943	3,833	
37	70-	1.7	DE O		1.74			3.910	
		1.7			1.72			3,945	
37	90-	1.6	DE O		1.68			3,979	
38	.00-	1.6	92 0	1-	1.67	1 0	10.124	4.011	
38	10-	1.6	9E 0		1.65		10.100	4.041	
38,	20-	1.6			1.64			4.070	
30	40	1.6	SE O		1.62			4.098	
38	50-	1.6	BE O		.60		10.301	4.149	
38	60-	1.6	BE O		1.58		10.336	4.173	
		1.6			1.57		10.371	4. 196	
		1.6			.57			4.219	
30	900	1.6			1.56			4.262	
		1,6			1.54			4,283	
39	20-	1.6	7E 0		1.54		10.542	4.303	
39	30-	1.6	7E 0	1-	1.54	1 0	10,577	4.323	
		1.6			.53		10.611	4.344	
		1.6			1.53 1.53			4.364	
		1.6			1.54		10.713	4.404	
39	. 80-	1.6	7E 0		.54		10.747	4.425	
		1.6		10	1.54	2 0	10.747	4.445	
		1.6			.55			4.467	
		1.6			1,56			4.489	
		1.6			1,57			4.534	
		1.6			.58			4.558	
40	50-	1,6	SE C		1.59			4.584	
40	60-	1.6	8E 0	10	1.61	1 0	11.629	4.610	
40	70-	1.6	0		1.62			4,638	
		1.6			1.65		11.102	4.667	
		1.6			67			4.730	IV
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#7 To-4' 400		.1	71' E78	E' 044	
41.10-1.698	01-1.70	01	11.215	4.764	
41.30-1.702	01-1.72	01	11.292	4.839	
41.40-1.702	01-1.74	01	11.332	4.879	
41.50-1.712	01-1.76	01	11,371	4.923	
41.60-1.71E	01-1.78	01	11.412	4.969	
41.70-1.712	01-1.80	01	11.652	5.017	
41.80-1.712	01-1.81	01	11.493	5.069	
41.70-1.722		01	11.535	5.123	
42.00-1.728	01-1.45	01	11.577	5, 179	
42.10-1.722	01-1.86	0	11.619	5.179 5.238 5.300	
42.20-1.72E 42.30-1.72E	01-1.87	01	11.704	5.363	
42.40-1.728	01-1.89	01	11.707	5.427	
42.50-1.732	01-1.892	21	11.790	5,493	
42.60-1.73E	01-1.891	01	11.790	5.559	
42.70-1.732	01-1.89	01	11.877	5,625	
42.10-1,728	01-1.884	01	11,921	5,690	
42.90=1.722	01-1.87	01	11.964	5.754	
43.00-1,728	01-1,862	01	12,608	5,817	
43.10-1.722	01-1.852	0	12.651 12.094 12.137	5.878	
43.20-1.72E	01-1.832	01	12,094	5,936	
43.40-1.71E	01-1.802	01	12, 180	5.992	
43.50-1.712	01-1.78	01	12,223	6.096	
43.60-1.71E	01=1.76	01	12, 265	6.144	
43.70-1.712	01-1.742	01	12.307	6. 189	-
43.80-1.70E	01-1.72	01	12,349	6.232	
43.90-1.70E	01-1.70	04	12.390	6.273	
44.00-1.69E	01-1,692	01	12,431	6,232 6,273 6,312	
44.10-1.69E	01-1.67	01	12.472	6.348	
44.20-1.69E	01-1.65	01	12,512	6,383	
44.30-1.68E	01-1.632	01	12.552	6.415	
44.40-1.68E	01-1.622	01	12.592	6.447	
44.60-1.67E	01-1.59	01	12.670	6.505	
44.70-1.672	01-1.582	01	12.708	6.533	
44.80-1.67E	01-1.57	01	12.747	6.559	
44.90-1.672	01-1.562	01	12.785	6.585	
45.00-1.66E	01-1.552	01	12.822	6.610	
45.10-1.66E	01-1.552	9	12.860	6.634	
45.20-1.66E	01-1.542	01	12.898	6.658	
45.30-1.66E	01-1.548	01	12.935	6.682	
45.40-1.66E	01-1.532	01	12.972	6.705	
45.50-1.66E	01-1.532	01	13.010	6.729	
45.70-1.66E	01-1.53	01	13.084	6.776	
45.80-1.66E	01-1.542	ŏi	13.122	6.799	
45.90-1.662	01-1.542	01	13. 159	6.824	
46.00-1.66E	01-1.55	01	13.197	6.848	
46.10-1.66E	01-1.562	01	13.235	6.874	
46.20-1.67E	01-1.572	01	13.274	6.900	
46.30-1.672	01-1.582	01	13,312	6.927	
46.40-1.67E	01-1.592	01	13,352	6.955	
46.50-1.672	01-1.602	01	13.391	6.984	
46.60=1.68E	01-1.612	01	13:431	7:014	
46.80-1.69E	01-1.652	01	13.512	7.080	
46.90-1.69E	01-1.662	01	13.554	7.116	IV-335
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666,000 677,000,00 406,000 207,7415.10 316,000 001,742

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47.00-1,69E 47.10-1.70E 47.20-1.70E	01-1.68	01	13,596	7, 154
47.10-1.702	01-1.70	01	13.639	7.194
47.30=1.702	01-1.72	01	13.726	7,282
47.40-1.712	01-1.761	01	13.771	7:330
47.50-1.728	01-1.781	04	13.816	7,381
47.60-1.728	01-1.80	01	13.862	7.435
47.50-1.72E	01-1.828	01	13.862 13.908 13.955	7.435 7.493 7.553
47.80-1.732	01-1.848	01	13.955	7.553
47.90-1.732	01-1.86	01	14.003	7,616
48.00-1.73E	01-1.87	01	14.051	7.682
48.20-1.742	01-1.49	01	14.148	7,821
48.30-1.742	01-1.898	01	10.197	7.892
48,40-1.742	01-1.90	01	14.246	7.892
48.50-1.742	01-1,898	01	14.295	8.037
48.60-1.742	01-1.89	01	14.345	8,109
48.80-1.732	01-1.88	01	14,394	8,180
48.90-1.73E	01-1.658	01	14.492	8.315
49.00-1.732	01-1.848	01	14.541	8.315
49.10-1.722	01-1.622	01	14.590	8.440
49.20-1.722	01-1.80	01	14.638	8.498
49.30-1.722	01-1,78	0	18.685	8,553
49.40-1.71E	01-1.76	01	14.732	8.606
49.60-1.702	01-1.72	01	14.779	8,655
49.70-1.70E	01-1.70	01	14.870	8.745
49.80-1.692	01-1.682	01	14.915	8.786
49.90-1.69E	01-1.662	01	14.960	8,825
50.00-1.682	01-1.64	01	15.003	8.862
50.40-1.68E 50.20-1.67E	01-1.62	01	15.003 15.046 15.089	8,897
50.30-1.67E	01-1.592	01	15.131	8.963
50.40-1.66E	01-1.588	01	15.173	8.994
50.50-1.66E	01-1.572	01	15.214	9.023
50.60-1.66E	01-1.562	01	15.255	9.052
50.70-1.65E 50.80-1.65E	01-1.552	01	15,335	9.079
50.90-1.65E	01-1.532	04	15.375	9.133
51.00-1.65E	01-1.53	01	15.415	9.159
51.10-1.65E	01-1.532	01	15.454	9, 185
51.20-1.65E	01-1.532	01	15.494	9.211
51.30-1.65E	01-1.532	11	15.494 15.533 15.573	9,237
51.00-1.65E 51.50-1.65E	01-1.532	01	15.613	9.203
51.60-1.652	01-1.548	10	15,652	9.316
51.70-1.652	01-1.55	01	15.693	9.343
51.70-1.65E 51.80-1.65E	01-1.55	01	15.693	9.371
51,90-1,66E	01-1.578	01	15,774	9,400
52.00-1.662	01-1.58	01	15.815	9.430
52.10-1.67E	01-1.598	31	15.857	9.461
52.20-1.67E 52.30-1.68E	01-1.60	01	15.943	9,528
52.40-1.682	01-1.642	01	15.986	9.564
52,50-1,692	01-1.668	01	16,031	9,602
52.60-1.692	01-1.688	01	16.076	9.642
52.70-1.702	01-1.70	09	16, 122	9,685
52.80-1.712	01-1.72	01	16.169	9.730

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52.90-1.712	01-1.748	9	16.217	9.779
E3 00-4 729				
53.00-1.72E 53.10-1.72E	01-1.76	01	16.266	9.830
53.10-1.725	01-1.792	01	16.316	9.885
53.20-1.73E	01-1.812	01	16.166	9.944
53.30-1.732			74' 74	10'006
33.30-1.732	01-1.83		16, 818	10,006
53.40-1.74E	01-1.85	01	16.470	10.071
53.50-1.742	01-1.872		16.523	10.140
	04-4-04			10' 242
53.60-1.75E 53.70-1.75E 53.80-1.75E	01-1.88	01	16.\$76 16.630 16.685	10,213
53.70=1.75E	01-1.892	01	16.630	10.287
53. 80-1.752	01-1.90	01	46. 485	10' 364
53 00 4 752	01-1-01		10.000	10.500
53.90-1.75E	01-1.912		16.740	10.443
54.00-1.75E	01-1.91	01	16,795	10.522
54. 10-1.75E	01-1.902	01	16.850	10.601
54,20=1,75E	01-1.902	01	16,906	10,679
54.30-1.75E	01-1.882	01	16,961	10.755
54.40-1.75E	01-1.872	01	17.615	10.829
54.80-1.74E		01	49 470	70' 800
30.0001.702	01-1.852		17.670	10,899
54.60-1.742	01-1,832	01	17, 124	10,967
54.70-1.73E	01-1.812	21	17, 177	11.031
B4 B0-4 739		01	47 220	44 002
54.80-1.73E	01-1.79		17.229	11,092
54.90-1.72E 55.00-1.71E	01-1.77	01	17, 281	11,149
55.00-1.71E	01-1.74	01	17.332	11.203
55.10-1.712	01-1.72	51	17.382	11.253
	The same of the sa			11, 204
55.20-1.702	01-1.70	01	17,432	11,301
55.30-1.69E	01-1.682	91	17.480	11.346
55.40-1.692	01-1,662	01	17 428	11,388
55 10 4 605			17,528	-1-1-1-1
55.50-1.68E	01-1.642		17.5/4	11.02/
55.60-1.67E	01-1,622	01	17.574	11,427
55.70-1.67E	01-1,602	04	17.665	11.501
55,80-1,66E		01	17.710	
33,0001,002	01-1.58			11,535
55.90-1.65E	01-1.57	01	17.753	11.568
56.00-1,65E	01-1,562	01	17,796	11,599
56.10-1.64E	01-1.552	01	17.839	11,629
56.20-1.64E	01-1.54	01	17.839	44 680
			17.000	11,000
56.30-1.64E	01-1.532	01	17.922	11,007
56.40-1.63E	01-1.522	01	17.963	11.715
56.50-1.63E	01-1.522	01	18.004	11.743
				14. 770
56.60-1.63E	01-1.522	01	18.045	11.770 11.798 11.825
56.70-1.632	01-1.522	01	18.685	11.798
56.80-1.63E	01-1.52	01	18.126	11.825
56.90-1.63E	01-1.52		18. 167	11,853
		01		
57.00-1.63E	01-1.532	01	18.207	11.881
57.10-1.64E	01-1.532	01	18.249	11,909
57 20-1 6UF	01-1.542	01	40 300	44 038
37.20-1.00-2			10.230	11.938
57.20-1.64E 57.30-1.64E	01-1.552	01	18.290 18.332 18.375	11.900
57.40-1.65E	01-1.562	01	18.375	11.999
57.50-1.65E	01-1.582	01	18.418	12.031
57.60-1.66E	01-1.592	01	18.462	12.065
57.70-1.67E	01-1.612	01	18.506	12.100
57.80-1.67E	01-1.632	01	18.552	12.137
57.80-1.67E 57.90-1.68E	01-1.652	01	18,599	12, 177
60 00-1-002			40 404	40 040
58.00-1.69E	01-1.672	01	18.646	12,218
58.10-1.70E	01-1.69E	01	18.695	12.263
58.20-1.71E	01-1.72	01	18.745	12.310
58.30-1.722			18.796	
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58,40-1,728	01-1.77	91	18.848	12,415
58.50-1.732	01-1.792	01	18.902	12.473
58.60-1.742	01-1.82	01	18.957	12.536
58.70-1.75E				
30. /Ve 1. /5E	01-1.842	01	19.013	12.602

58.80-1.75E	01-1.862	01	19.670	12,672
58.90-1.76E	01-1.882	01	19.129	12.747
59.00-1.76E 59.10-1.77E	01-1.902	01	19.488	12.825
59.20-1.77E	01-1.922	01	19.309	12.991
59.30-1.77E	01-1.932	01	19.370	13.077
59.40-1.77E	01-1.93E 01-1.92E	01	19.432	13.163
59.50-1.77E 59.60-1.77E	01-1.91	01	19.555	13.249
59.70-1.77E	01-1.90#	01	19.555	13.416
59.80-1.76E 59.90-1.76E	01-1.88E 01-1.86E	01	19.676	13.495
60.00-1.75E	01-1.842	01	19.795	13.643
60.10-1.74E	01-1.812	4	19.853	13.710
60.20-1.73E 60.30-1.72E	01-1.792	01	19.910	13.773
60.40-1.72E	01-1.74	01	20.620	13.887
60.50-1.71E	01-1.71	94	20.073	13,939
60.50-1.70E 60.70-1.69E	01-1.682	01	20.125	13.987
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60.90-1.67E	01-1.62	04	20.273	14.115
61.00-1.66E 61.10-1.65E	01-1.602	01	20.320 20.366	14.153
61.20-1.64E	01-1.56E	01	20.411	14.223
61.30-1.64E	01-1.55	01	20.455	14.256
61.40-1.63E 61.50-1.62E	01-1.548	01	20.540	14.318
61.60-1.62E	01-1.52	01	20.582	14.347
61.70-1.62E	01-1.512	21	20.624	14.376
61.80=1.61E 61.90=1.61E	01-1.502	01	20.665	14.405
62.00-1.61E	01-1.50	01	20.746	14.460
62.10-1.61E	01-1.50Z	01	20.786	14.488
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62.40-1.62E	01-1.52	01	20.909	14.573
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62.80-1.64E	01-1.57	01	21.079	14.697
62.90-1.65E	01-1.582	31	21,423	44.732
63.00-1.66E 63.10-1.67E	01-1.602	01	21.169	14.768
63.20-1.68E	01-1.64	01	21.215	14.846
63.30-1.69E 63.40-1.70E	01-1.67E	01	21.313	14.889
63.50-1.71E	01-1.72	01	21.416	14.985
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64.00-1.77E	01-1.862	01	21.106	15.296
64.10-1.78E	01-1.892	1	21,769	15.373
64.20-1.79E 64.30-1.79E	01-1.912	01	21.833	15.541
64.40-1.80E	01-1.952	01	21.967	15.632
64.50-1.80E 64.60-1.80E	01-1.952	01	22.035	
64.00#1.80E	01-1.962	UT	22.104	15.821

64.70-1.801	E 01-1.968	01	22.173	15.916	
64.80-1.801		07	22.242	15,916	
64.90-1.80		01	33' \$40	16.103	
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65.00-1.791		01	22.378	16, 191	
65. 10-1.781	E 01-1.892	01	22.445	16.275	
65.20-1.77		01	22.510	16 355	
03.001.77	U1-1.0/E			10,333	
65.30-1.76	E 01-1.842	01	22.574	10.429	
65.40-1.75	E 01-1.812	01	22.636	16,498	
65.50=1.74		01	22.697	16.562	
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65.60-1.73	E 01-1.752	01	22.756	16.621	
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65.90-1.69	2 01-1.662	91	22.920	10.775	
66.00-1.67	E 01-1.642	01	22.971	16.819	
66. 10-1.66	E 01-1.612	01	23.021	16.860	
66 20 4 65	- 04-4 603		22' 440	74' 800	
66.20-1.65	E 01-1.592	01	23.069	16,899	
66.30-1.64	E 01-1.572	01	23. 115	16.935	
66.40-1.63	E 01-1.55	01	23.161	16.970	
66 80-4 63	. 04-4 534			17 003	
66.50-1,62	E 01-1,532	01	23.204	16.970	
66.50-1.61	E 01-1.52	01	23.247	17,034	SELLA .
66.70-1.60	2 01-1.512	01	23.289	17.065	
		01	23,330	17,094	
66.80-1,59	E 01-1,50		23,330	111	
66.90-1.59	E 01-1,492	01	23.370	17, 122	
67.00-1.58	E 01-1,48	01	23.410	17.150	
			22 1110	47 478	
67.10-1.58		01	23.449	17, 150 17, 178 17, 205	
67.20-1.58	E 01-1.482	01	23,488	17.205	462
67.30-1.58	E 01-1.482	01	23.527	17.232	
				77' 250	
67.40-1.58		01	23,566	17,259	
67.50-1.58	E 01-1.49#	01	23.605	17.287	
67.60-1.59	E 01-1.498	01	23.644	17,314	
47 70-1 80	E 01-1.50E	01	23.684		
67.70-1.59 67.80-1.60	2 0 1 - 1 - 30 2		23.000	17,343	
67.00-1.60	E 01-1.51E	01	23.725	17,372	2 1
67.90-1.61	E 01-1.53E	01	23.766	17.402	
68.00-1.62		01	23.808	17,434	
	2 0 1-1.342		23.600	10 067	
68.10-1.63		0 1	23.852	17.467	
68.20-1.64	E 01-1.582	01	23.896	17.502	
68.30-1.66		01	23.942	17.539	
				17.502 17.539 17.579	
68.40-1.67		01	23.990	17.579	
68.50-1.68	E 01-1.66E	01	24.040	17.621	
68.60-1.70		04	24.091	17.667	
68.70-1.72	E 01-1.728	01	24,145	17.716	7.0 4 71
68.80-1.73	E 01-1.75E	01	24.202	17.770 17.828 17.893	
68.90-1.75	E 01-1.79#		24.261	17.828	
49 66-4 77				44 803	
69.00-1.77			24.322	7.033	
69.10-1.78		01	24.387	17.963	
69.20-1.80	E 01-1.89E	01	24.454	18.039	
	E 04-4 004		24.524		
69.30-1.81	E 01-1.922			18.122	
69.40-1.83	E 01-1.95E	01	24.596	18.212	
69.50-1.84		01	24.671	18.309	
			24.747	18.212	A STATE OF THE STA
69.60-1.84		01		10.010	有类型 。 第二
69.70-1.85	E 01-2.01E	01	24.825	18.517	
69.80-1.85		01	24.904	18.625	
				40' 734	
69.90-1.85			24.983	18.734	
70.00-1.85	E 01-2.002	01	25.062	18.841	
70.10-1.84		24	25-140	18.944	884.8
			25 247	18.944	
70,20-1.83			23,211	13,002	
70.30-1.82	E 01-1.922	01	25.140 25.217 25.292	19.133	
70.40-1.80		nero production	25.364	19.218	PER N
				19.296	
70.50-1.79	Z 01-1.852	01	25.434	19.230	IV-339

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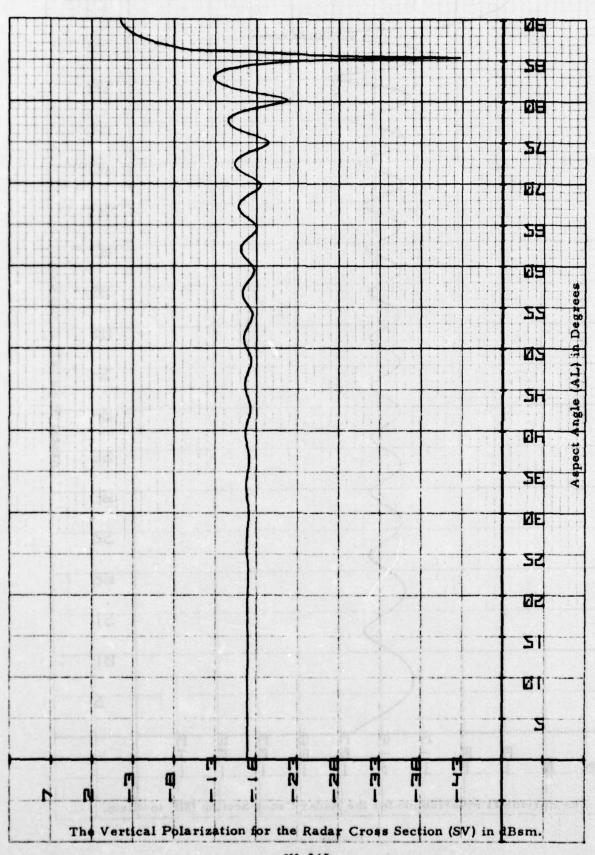
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70.90-1.712	01-1.718	09	25.686	19.547
71.00-1.69E	01-1.672	01	25.742	19.597
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71.10-1.67E	01-1.642	1	25.795	
71.20-1.66E	01-1.612	01	25.846	19,685
71.30-1.64E	01-1.592	19	25.895	19.724
71.40-1.62E	01-1.562	01	25.941	19.760
71.50-1.61E	01-1.542	01	25.985	19.795
	01-1.52	10		70' 927
71.60-1.59E			26.028	19.827
71.70-1.58E	01-1.502	01	26.069	19.857
71.80-1.57E	01-1.482	01	26.109	19.886
71.90-1.56E	01-1.472	U 1	26.447	19,914
72.00-1.55E	01-1.462	01	26.185	19.941
72.10-1.54E	01-1.452	01	26.222	19.967
72.20-1.54E	01-1.442	01	26.258	19.992
72.30-1.54E	01-1.642	31	26.293	20.017
72.40-1.53E			26.328	20.041
	01-1.442	01		
72.50-1.53E	01-1.442	94	26.363	20.066
72.60-1.54E	01-1.642	01	26.398	20.090
72.70-1.54E	01-1.452	01	26.434	
72.80-1.55E	01=1.462	01	26.469	20.140
72.90-1.55E	01-1.472	01	26.505	20.166
				20' 402
73.00-1.56E	01-1.482	01	26.542	20.193
73.10-1.58E	01-1.502	01	26.580	20.220
73.20-1.592	01-1.522	01	26.618	20.249
73.30-1.60E	01-1.542	91	26,658	20.279
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73.50-1.642	01-1.592	01	26.744	20.346
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73.60-1.66E	01-1.622	01	26.790	20.382
73.70-1.68E	01-1.662	61	26.838	20.423
73.80-1.712	01-1.692	01	26.889	20.466
73,90-1,73E	01-1.732	01	26.944	2: .515
74.00-1.76E	01-1.77E	01	27.002	20.568
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74.10-1.78E	01-1.822	01	27.064	20.627
74.20-1.812	01-1.862	01	27.130	20.694
74.30-1.84E	01-1,912	91	27.201	20.768
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74.60-1.90E	01-2.042	01		21.050
74.70-1.922	01-2.082	01	27.530	21.165
74.80-1.93E	01-2.102	01	27.623	21,289
74.90-1.94E	01-2.122	31	27.718	21,420
75.70-1.942	01-2.122	01	27.815	21.553
75.10-1.94E	11-2.112	.1	27.912 28.008	21.686 21.814 21.934
75.20-1.93E	01-2.092	01	28' 008	24' A14
			20.000	21.014
75.30-1.92E	01-2.052	01	28,102	21,934
75.40-1.902	01-2.01	01	28.192	22.043
75.50-1.87E	01-1.962	.1	28.278	22. 4.2
78 40 4 607				
75.60-1.85E 75.70-1.82E	01-1.912	01	28,359	22.230
75.70-1.82E	01-1.862	11	28.435	22.309
75.80-1.792			28.507	22.379
	01-1.822	01	20.50/	24.319
75.90-1.76E	01-1.77	11	28.573	22.440
76.00-1.732	01-1.72	01	28.635	22.495
				20' 5"
76.10-1.702	01-1.682	31	28,692	22,545
76.20-1.67E	01-1.642	10	28.745	22.589
76.30-1.642	01-1.602	21	28.795	22.629
	01-1.562	100 C 100 C 100 C		
76.40-1.62E	V1-1,30E	01	28.841	22.665

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76.50-1.59E 01-1.53E 01
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76.50-1.572 01-1.508 01
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76.90-1.512 01-1.432 0
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                            29.668
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77.00-1.50E 01-1.41E 01
77. 10-1.482 01-1.409 01
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77.60-1.45E 01-1.87E 01
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29.852
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79.30-1.83E 01-1.65E 01
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79.40-1.88E 01-1.92E 01
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79.50-1.93E 01-1.99E )1
79.60-1.98E 01-2.67E 01
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79.80-2.08E 01-2.24E 01
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                           32.348
                                    25.884
84.80-2.13E 01-2.08E 01
                           32.352
                                    25.855
84.90-2.29E 01-2.24E 01
                           32.355
                                    25.812
                                    25.744
85.00-2.50E 01-2.45E 01
                           32.359
85.10-2.79E 01-2.71E 01
                           32.364
                                    25.622
                                    25.361
85.20-3.24E 01-3.07E 01
                           32.374
85.30-4.28E 01-3.44E 34
                           32.423
85.40-4.00E 01-3.262 01
                           35.446
                                    23.836
                           35.478
85.50-3.11E 01-2.84E 01
                                    23.430
85.60-2.68E 01-2.51E 01
                           35.485
                                    23.257
85.70-2.39E 01-2.26E 01
                           35.487
                                    23.166
85.80-2.17E 01-2.06E 01
                           35.488
                                    23.110
85.90-1.99E 01-1.90E 01
                           35.487
                                    23.072
86.00-1.84E 01-1.76E 01
                           35.486
                                    23.043
86.10-1.71E 01-1.64E 01
                           35.484
                                    23.021
86.20-1.03E 01-1.03E 01
                           35.667
                                    23.177
86.30-9.71E 00-9.71E 0
                           35.670
                                    23.170
86.40-9.15E 00-9.15E 00
                           35.673
                                    23.163
86.50-8.63E 00-8.63E 00
                           35.675
                                    23.156
86.60-8.14E 00-8.14E 00
                           35.677
                                    23.150
86.70-7.68E 00-7.68E 00
                           35.678
                                    23.144
   80-7.25E 00-7.25E 00
                           35.679
                                    23.139
86.90-6.83E 00-6.83E 00
                           35.680
                                    23.134
87.00-6.44E 00-6.44E 00
                           35.681
                                    23.130
87.10-6.07E 00-6.07E 00
                           35,682
                                    23, 125
                                    23, 121
87.20-5.72E 00-5.72E 00
                           35.683
87.30-5.39E 00-5.39E 00
                           35,683
                                    23, 117
87.40-5.07E 00-5.07E 00
                           35.684
                                    23, 114
                           35.684
87.50-4.78E 00-4.78E 00
                                    23.110
87.60-4.49E 00-4.49E 00
                           35.684
                                    23.107
87.70-4.23E 00-4.23E 00
                           35.685
                                    23.104
87.80-3.98E 00-3.98E 00
                           35.685
                                    23.101
87.90-3.74E 00-3.74E 00
88.00-3.51E 00-3.51E 06
                           35.685
                                    23.098
                           35.685
                                    23.096
                                    23,093
88.10-3,30E 00-3,30E 00
                           35.685
                           35.685
                                    23.091
88.20-3.40E 00-3.40E 00
```

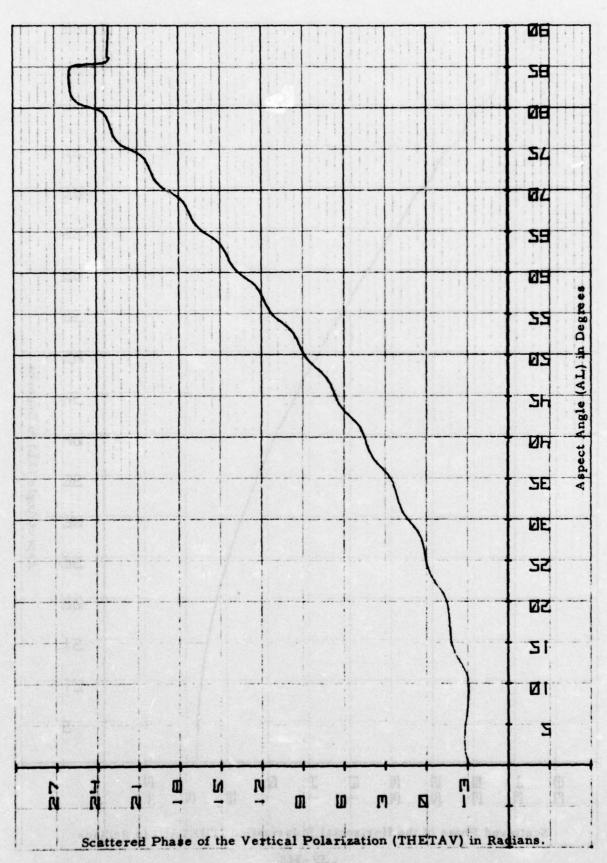
88.30-2,928 00-2.928 00 35	685 23.089
	685 23.087
	685 23.085
88.60-2.432 00-2.432 00 35	685 23.083
	685 23.082
	685 23.080
	685 23.079
	685 23,078
	684 23.076
	684 23.075
	684 23.075
	684 23.074
	684 23.073
	684 23,073
	684 23.072
	684 23.072
그 것이 그리고 있는 것이 없는 것이 없었다고 있다. 사람들은 것은	684 23.072
는 No. 10 10 10 10 10 10 10 10 10 10 10 10 10	684 23.072

Plots from the Sample Output

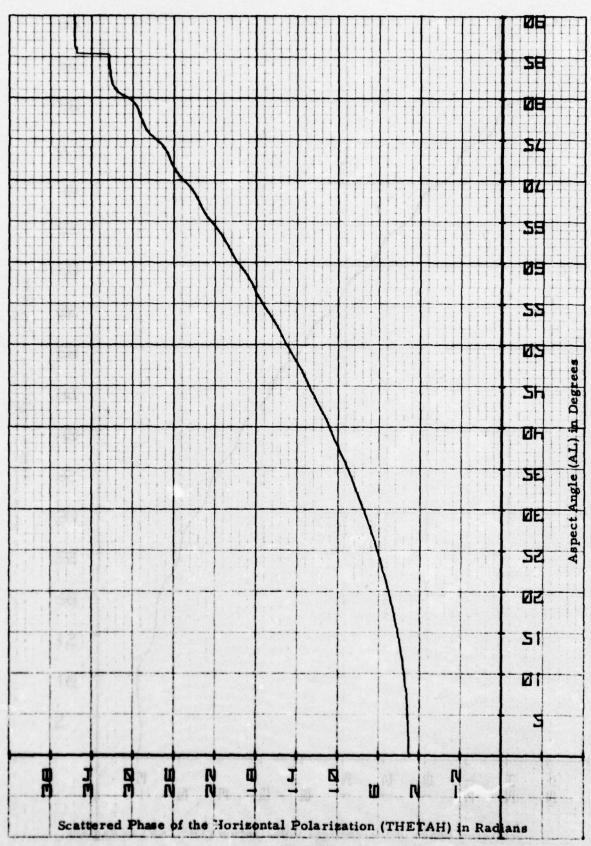


IV-345

IV-346



IV-347



IV-348

## I. RADAR SCATTER FROM MISSILE Program

#### 1. Introduction

The RADAR SCATTER FROM MISSILE Program was originally developed by Cornell Aeronautical Laboratory, Inc. Background information related to this program can be found in CAL Report No. ER/RIS-10, page 128, "Radar Scattering Analysis", Aug. 1966 and in the documentation for Contract AFAL-TR-67-343, page 8, "Investigation of Scattering Center Theory", Dec. 1967.

#### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the RADAR SCATTER FROM MISSILE Program computes polarization radar cross sections in dBsm and scattering phases with respect to incremental values of aspect angle for a missile-type object with shape shown in Figure IV-8.

## 3. Computer Program Operating Environment

- a. Computer
  HIS-6000
- b. Source Language

  FORTRAN Y under GCOS.
- c. Memory Requirement

  23K words
- d. Typical Processing Time Required

  0.0157 hrs. (56 seconds)
- e. Peripheral Equipment Requirement

  Four disc files (file codes: 07, 08, 09, 10)

## f. Non-system Subroutines Required

(1) Subroutines Obtained from SXSA Subroutine File

UPDAT

BESS

GAM

PLTGDT

## (2) Other Non-system Subroutines

(a) RTSIG

Calling sequence:

CALL RTSIG(EN, AY, CK, ALPHA, ARG,

RTSIGV, RTSIGH).

(b) AXIAL

Calling sequence:

CALL AXIAL(EN, AY, CK, EX, ARG, AA, BB,

CC).

(c) BDSD

Calling sequence:

CALL BSDS(EN2, EN3, AY, AICH, ALPHA, CK,

EXPR1, EXPR2). EXPR1, EXPR2 are complex variables.

#### 4. Inputs

The inputs which are needed for the execution of the RADAR SCATTER FROM MISSILE Program are as follows:

HI - Half height in inches of nose cone.

H2 - Half height in inches of body cylinder.

H3 - Half height in inches of body frustum.

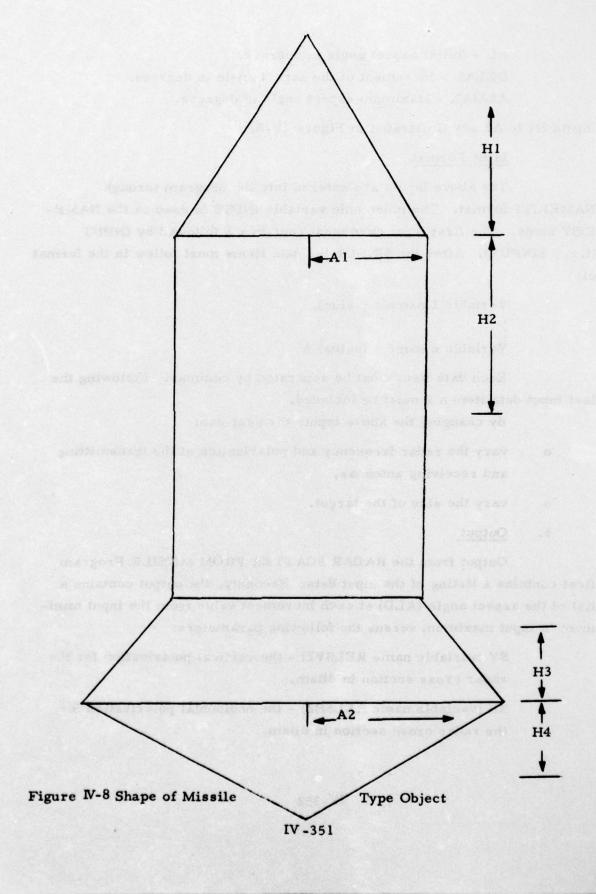
H4 - Half height in inches of tail cone.

Al - Radius in inches of nose cone base.

A2 - Radius in inches of tail cone base.

CLAM - Wave length in inches.

IV-350



AL - Initial aspect angle in degrees.

DELAL - Increment of the aspect angle in degrees.

ALMAX - Maximum aspect angle in degrees.

Inputs H1 to A2 are illustrated in Figure IV-8.

# Input Format

The above inputs are entered into the program through NAMELIST format. The mnemonic variable INPUT is used as the NAMELIST name. The first input card must contain a \$ followed by INPUT (i.e., \$INPUT). After the \$INPUT the data items must follow in the format of:

Variable | name = (value),

Variable n name = (value) \$

Each data item must be separated by commas. Following the last input data item a \$ must be included.

By changing the above inputs the user can:

- o vary the radar frequency and polarization of the transmitting and receiving antennas,
- o vary the size of the target.

## 5. Output

Output from the RADAR SCATTER FROM MISSILE Program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (ALD) at each increment value from the input minimum to input maximum versus the following parameters:

SV (variable name RELSV2) - the vertical polarization for the radar cross section in dBsm.

SH (variable name RELSH2) - the horizontal polarization for the radar cross section in dBsm. THETAV - scattered phase in radians of the vertical polarization.

THETAH - scattered phase in radians of the horizontal polarization.

Through a call to the subroutine PLTGDT four data files are built. Each file contains the data of one of the above listed output parameters. That is,

file 07 contains the data of SV, file 08 contains the data of SH, file 09 contains the data of THETAV, and file 10 contains the data of THETAH.

The aspect angle (ALD) is not recorded on a separate data file. The aspect angle can be easily computed for the above data by using the minimum aspect angle and the increment value of the aspect angle, both of which are recorded on each of the files. That is, at any Nth increment the aspect angle is equal to the minimum aspect angle plus N times the increment value.

The output may also contain printout from the 3 subroutines AXIAL, RTSIG, and BDSD. AXIAL will produce values for the variables X, JO, J1, and J2 which are associated with the Bessel function. Also, values for the variables AUX or CP1 may be printed out via AXIAL. Subroutine RTSIG may cause printout of the variable ALPHA. Subroutine BDSD may output values for the variables AUX2 or AUX3, or just the subroutine name, BDSD.

```
IDENT
                   CLEARY, NEUFFER, 65121104RADC
         USERID
                   CLEARY$THREE
         LOWLOAD
         OPTION
                   FORTRAN
         SELECT
                   CLEARY/OMISS
                   CLEARY/OXSA
         SELECT
         EXECUTE
         LIMITS
                   05,23K,,10K
         PRMFL
                   07, W, L, CLEARY/STORE1
         PRMFL
                   08, W, L, CLEARY/STORE2
         PRMFL
                   09, W, L, CLEARY/STORE3
         PRMFL
                   10, W, L, CLEARY/STORE4
         DATA
$INPUT
H1=1.62,
H2=2.50,
H3=1.60,
H4=0.432,
A1=0.9,
A2=1.7,
CLAM=1.0,
AL=0.0,
DELAL=0.1,
ALMAX=180.0$
         ENDJOB
```

R	ADC 63	35/645	BATC	H JO	В
	ER		DATE		TIME
			11/25	179	1450
PROGRAMME	R		TELEPH	ONE	
CONTI		4	339-		
RADC ENGIN	EER		TELEPH	ONE	SYMBOL
CLEAR	Y		3573		OCSA
	TA	PES AS	SIGNED		
REEL NO.	WRITE	READ	DEN.		TITLE
NONE					
READER DISC. # 0	F LINKS		DRUM#	OF	PUNCH
CORE SIZE		3K	AC TIVIT	IES	1
PROCESSOR			ESTIMAT	TED!	obo°
TOTAL RUN		05		_	000
			XPECTED		
NON	1E	KS	40. OF		
FROMI	TOI		MODE BCD		NO. OF FILES
SI	PECIAL C	PERA	TOR INST		TIONS
				_	
			Use rever	•• •	de il required)

RADC FORM 0-56 PREVIOUS EDITION WILL BE USED

HIS-6000 Batch Submittal Form

Sample Listing of the RADAR SCATTER FROM MISSILE Program

```
70077 81 11-26-75
                      11.528
C RADAR SCATTER FROM MISSILE
                                                                                   00001000
      COMMON/NAM/YY1(2030), YY2(2 000), YY3(2000), YY4(2000).
                                                                                   00001010
      • XX(2000), 11
                                                                                   00001020
      REAL N2, 13, N4
                                                                                   00001030
      COMPLEX CAUX, ZV, ZH, C1, C2, EXPR1, EXPR2
                                                                                   000011040
      NAMELIST/INPUT/H1, H2, H3, H4, A1, A2, CLAM, AL, DELAL, ALMAX
                                                                                   00031050
      P1=3.14159265
                                                                                   00001060
       DYR=P1/180.0
                                                                                   00001070
      RTD=180. 1/PI
                                                                                   00001080
       GNSBC=2.255
                                                                                   00001090
       @ELC1=1.0/(39.37+39.37)
                                                                                   00001100
       NEO
                                                                                   00001110
C
                                                                                   00001120
C
                                                                                   00001130
e
                                                                                   02001140
                  INPUT - NAMELIST - INPUT
C
                                                                                   00001150
                                                                                   00031160
G CD1 HALF HEIGHTS IN INCHES OF NOSE COME (H1), BODY CYLINDER (H2),
                                                                                   00001170
       BODY FRUSTUM (H3), TAIL CONE (H4).
RADII IN INCHES OF NOSE CONE BASE (A1), TAIL CONE BASE (A2)
                                                                                   00001180
C
 CD2
                                                                                   00001190
        AND WAVE LENGTH IN INCHES (CLAM).
                                                                                   00001200
C
       ANGLES IN DEGREES OF ASPECT (AL), INCREMENT IN ASPECT (DELAL),
C
 CD3
                                                                                   00001210
        MAXIMUM ASPECT (ALMAX).
                                                                                   00001220
C
C
                                                                                   00001230
    1 AEAD(05, INPUT, END=555)
                                                                                   00001240
C
                                                                                   00001250
                                                                                   00001260
C
      WRITE(06.2000) H1, H2, H3, H4, A1, A2, CLAM, AL, DELAU, ALMAX
                                                                                   00001270
                                                                                   00001280
 2000 FORMAT(1H1,////49X, INPUTS - SCATTER FROM MISSILE!,
                                                                                   00001290
     •////29X. HALF HEIGHTS IN INCHES OF NOSE CONE (H1) = 1,F14,7,
•///52X. OF BODY CYLINDER (H2) = 1,F14.7,
                                                                                   030 1300
                                                                                   00001310
      */4/52x. 'OF BODY FRUSTUM (H3) = 1.F14.7.
                                                                                   00001320
      .///52x. 'OF TAIL COME (H4) = 1, F14.7.
                                                                                   00001330
      ./1/29X. 'RADII IN INCHES OF NOSE COME BASE (A1) = ',F14.7.
                                                                                   09001340
      */1/45x. OF TAI_ CONE BASE (A2) = ',F14.7.
                                                                                  00001350
     •///29X. NAVE LENGTH IN INCHES (CLAM) = 1,F14,7,
•///29X. ANGLES IN DEGREES OF ASPECT (AL) = 1,F14.7,
                                                                                   00001360
                                                                                   00001370
     *///47x.' OF INCREMENT IN ASPECT (DELAL) = ',F14.7, */2/47x.' OF MAXIMUM ASPECT ANGLE (ALMAX) = ',F14.7.
                                                                                  00001380
                                                                                   00001390
     ·/1+1)
                                                                                   00001400
C
                                                                                  00001410
C
       IF AL. GE. G. C. AND. AL. LT. 180. C. AND. ALMAX. GE. O. O. AND. ALMAX. LE. 180. 0 0001430
     X.AND.DELAL.GT.0..) GO TO 2
WRITE(6,2010)
                                                                                   00001440
                                                                                   00011450
 2010 FORMAT(45H ASPECT OR ITS RANGE OR ITS INCREMENT ILLEGAL)
                                                                                   00001460
      60 To 555
                                                                                   0.001470
    2 MRITE(6,2'01)
                                                                                   00001480
                                          RCS V
 2001 FORMATI//67H ASPECT ANGLE
                                                         RCS H THETA V 00001490
           THETA H/574 (DEGREES)
                                                (DRSH)
                                                               (Pasm)
                                                                             (RADIO30.1500
     XANS)
                (RADIANS)/)
                                                                                   000-1510
```

```
70077 61 11-26-75 11.528
      BK=2.0+PI/CLAM
                                                                        00001520
      #C=ATAN2(A1.2.0-11/
#F1=ATAN2(A2-A1,2.0-H3)
                                                                        00001530
                                                                       00001540
      MF2=ATAN2(A2, 2.0+H4)
ALC1=ATAN2(A2-A1.2.0+(H2+H3))
                                                                      00001550
                                                                       00001560
      M2=1.0+XC/PI
                                                                        00001570
                                                                        00001580
      N3=1.0-XF1/PI
      N4=1.0+(XF1+XF2)/PI
                                                                        00001590
      11=0
                                                                        00001600
      RHV2=0.0
                                                                        00001610
                                                                        00001620
      BMH2.0.0
      CHETAVED. 0
                                                                        00001630
                                                                        00001640
      THETAHED.
                                                                        00001650
      ALD=AL
   10 BONTINUE
                                                                        00001660
                                                                        00001670
      AL=ALD+DTR
      #1=2.0*CK*A1*SIN(AL)
                                         00001070
00001700
00001710
00001720
00001730
                                                                        00001680
      #2=2.0 *CK + A2 *SIN(AL)
      #2=4.0°CK+H2+C3S(AL)
      ¥3=4,0+CK+H3+CJS(AL)
      ZV=(0.0.0.0)
      ZH=(0,0,0.0)
C CONTRIB'N FROM S7
                                                                        00001740
      11:11:1
                                                                        00001750
      IF(AL.GT.ALC1.AND.AL.LT.(PI-XF2)) GO TO 14
                                                                        00001760
      IF(AL.LT.PI/2.0) GO TO 12 IF(AL.GT.PI/2.J) GO TO 13
                                                                        00001770
                                                                        00001780
   12 ARG=2.0+(P1+XF2)
                                                                        00001790
      EALL AXIAL(N4,A2,CK,X2,ARG,AA,38,CC)
AUX=4.0+CK+H3
                                                                        90001300
                                                00001810
00001820
00001830
00001840
      AUX=4.0.CK.H3
      SAUX=CMPLX(0.0,AJX)
      CAJX=CEXp(CAUX)
      B1=A4+CAUX+CMP_X( .0,-BB)+CAUX
      B2=CC+CAHX
                                                                        00001850
                                                                00001860
      2V=ZV+C1+C2
      2H=ZH+C1-C2
      $0 TO 14 00001880 00001880 00001890 00001890 00001890 00001900 00001900 00001900
   13 ARG=2. 1.XF2
      AUX=-4.0+CK+H3
                                                                        00001910
      CAUX=CMPLX(C. ,AJX)
                                                                        00001920
      CAUX=CEXP(CAUX)
      C1=AA+CAUX+CMP_X( .0,+RB)+CAUX
                                                                        00001940
      ES=CC+CAUX
                                                                        00001950
      ZV=ZV+C1+C2
                                                                        00001960
                                                                        00001970
      2H=Z++C1-C2
   14 CONTINUE
                                                                        01001980
CONTRIBIN FROM S5
                                                                        00011990
      IF (AL.GT.XC) GO TO 15
                                                                        00000000
  116 ARG=2.00PI
                                                                        02002010
                                                                      0:005050
      CALL AXIAL(N2, A1, CK, X1, ARG, AA, HB, CC)
                                                                       00002030
      AUX=-4.0+CK+H2
```

```
70077 01 11-26-75 11.528
      BAUX=CMPLX(0.0.AJX)
                                                                               00012040
      CAUX=CEXP(CAUX)
                                                                               00012050
      C1=AA+CAUX+CMP_X( .0,-BB)+CAUX
       E2=CC+CAUX
                                                                               01002070
       2V=ZV+C1+C2
                                                                               00002080
      2H=ZH+C1-C2
                                                                               06035500
   15 CONTINUE
                                                                               00002100
G CONTRIBON FROM SZ
                                                                               00002110
       1F(AL.GT.(PI-A_C1)) GO TO 16
                                                                               00002120
       IF (AL.LE.XC) GO TO 16
                                                                               00002130
       IF (ABS(Y2/2.0).LT.CNSBC) GO TO 17
                                                                               00002140
      ARG=2.0+(PI-AL)
                                                                               000032150
       CALL RTSIG(N2.A1.CK.AL.ARG.RTSIGV.RTSIGH)
                                                                               00002160
      AUX=P1/4.7-X1-Y2
                                                                               00002170
      BAJX=CMPLX(C. AJX)
                                                                               0:002180
      CAJX=CEXP(CAUX)
                                                                               06002190
       ZV=ZV+CAUX+RTSI3V
                                                                               00002200
      ZH=ZH+CAUX+RTSIGH
                                                                               00002210
      80 To 16
                                                                               0000(2220
   17 CALL BOSD(N2,N3,A1,H2,AL,CK,EXPR1,EXPR2)
2V=ZV+EXPR1-EXPR2
                                                                               00002230
                                                                               00002240
      ZH=ZH+EXPR1+EXPR2
                                                                               00002250
   16 CONTINUE
                                                                               00002260
C CONTRIS. N FROM S3
                                                                               000 2270
      1F(AL.GT.(PI-XF1)) GO TO 18
                                                                               00002280
       IF(AL.LE.G.175) 30 TO 18
                                                                               00002290
       IF(ABS(Y2/2.0).LT.CNSBC) GO TO 18
                                                                               00002300
      ARG=2.3+AL
CALL RTS1G(N3.41.CK,AL,ARG,RTS1GV,PTS1GH)
                                                                               00002310
                                                                               00002320
      AUX=PI/4.0-X1
                                                                               00002330
      CAJX=CMPLX(C. . AJX)
                                                                               00002340
      CAUX=CEXP(CAUX)
ZV=ZV+CAUX+RTSI3V
                                                                               00002350
                                                                               000.2360
      ZH=ZH+CAUX+RTSIGH
                                                                               00002370
   18 CONTINUE
                                                                               01002380
G CONTRIBON FROM S4
                                                                               00002390
      IF(AL.LE.ALC1. JR. AL.GE.PI-XF?) GO TO 19
                                                                               00002400
      ARG=2.9+(P1-AL+XF2)
                                                                               000 2410
      CALL RTSIG(N4, A2, CK, AL, ARG, RTSIGV, RTSIGH)
                                                                               00002420
      AUX=P1/4. - = X2+Y3
                                                                               00002430
      CAJX=CMPLX(C. 1, AJX)
                                                                               00002440
      CAUX=CEXP(CAUX)
                                                                               00002450
      ZV=ZV+CAJX+RTSIGV
                                                                               00002460
      ZH=ZH+CAUX+RTSI3+
                                                                               00012470
   19 CONTINUE
C ARMANGE SUTPUT DATA
                                                                               00002490
      ZVRE=RFAL (ZV)
                                                                               0002500
      ZVIM=AIMAG(ZV)
                                                                               000 2510
      RELSV2=1 .. 0 - ALJG1 ((ZVRE - + 2+ ZV14 - + 2) - RELC1)
                                                                               00002520
      RHV1=ATAU2(ZVI4,ZVRE)
CALL UPDAT(RHV1, RHV2, PI, THETAV)
                                                                               00002530
      ZHRE=REAL(ZH)
```

STATE OF STA

```
70077 01 11-26-75
                   11.528
                                                                00002560
      ZMIM=AIMAG(ZH)
      RELSH2=10.0 AL 3G10((ZHRE++2+ZHIM++2)+RELC1)
RMH1=ATAN2(ZHIM,ZHRE)
                                                                      00002580
 00002590
                                                                      00002510
                                                                      00002620
                                                                      00002630
                                        00002640
00002650
00002660
00002670
00002680
      445(11)=RELSH2
      WY3(11)=THETAV
      WE4(II)=THETAH
      ALD=ALD+DELAL
F(ALD-ALMAX) 1 ,10,200
                                                      000C2690
000C2700
C
C
                                                       06002710
06002710
06002720
06002730
  200 CONTINUE
      BALL PLTGDT
C
                                                                      00002730
                                 00002740
00002750
00002760
00002770
C
C
      N=V+1
                                                   00002760
00002770
00002780
00002790
      IF(N.LT.1) GO TO 1
  555 STOP
```

END

Was de la constitución de la con

# 7022T 01 11-26-75 11.154

	SUBROUTINE RTSIG(EN, AY, CK, ALPHA, ARG, RTSIGV, RTSIGH)	00002800
	P1=3.141593 P=P1/EN	00002810
	C=COS(P)	00002820
		00002630
	AUX1=C-1.(	00002840
	1F(ABS(AUX1).LT,1.UE-30) GO TO 21	0.000
40	AUX2=C-COS(ARG/EN)	00002860
0.12.09	1F(ARS(AUX2).LT.1. JE-3.) GO TO 22	00002870
41	AUX2[=1.,/AUX2	00002680
	AUX1I=1.0/AUX1	00002890
	AUXV_AUX2I_AUX1I	00002900
	AUXH=AUX2I+AUX1I	00002910
	FAC=SIN(P)/EN+SQRT(AY/(SIN(ALPHA)+CK))	00032920
	RTSIGV=FAC+AUXV	00002930
	RTSIGH=FAC+AUX+	00002940
	60 To 100	00002950
21	L WRITE(6,31) AL3HA	00012960
31		00002970
	GO TO 40	
22		00002990
	FORMAT(17H AUX2=J.C. ALPHA=E15.7)	00003000
	GO TO 41	00003010
100	RETURN	00003020
	ENO	000033030
		101 - 10 - 10 - 10 - 10 - 10 - 10 - 10

#### 7029T 01 11-26-75 11.538

```
BUBROUTINE AXIAL(EN.AY, CK, EX, ARG, AA, RB, CC)
                                                                           00003040
    R1=3.141593
                                                                           00003050
    REPI/EN
                                                                           00003060
    EP*COS(P)
                                                                           00003370
    PACESIN(P)/EN-AY-SORT(PI)
                                                                           00003080
    CP1=CP-1.0
F(A9S(CP1).LT.1, E-30) GO TO 18
                                                                           00003090
                                                                           00003100
30 AUX=CP-COS(ARG/EN)
                                                                           00003110
    $F(ABS(A)X).LT.1. E-30) GO TO 20
                                                                           00003120
 31 4.2.0/AUX
                                                                           00003130
    B=2.0/EN+SIN(ARG/EN)/(CK+AY+AUX++2)
                                                                           00003140
    6=2.0/CP1
                                                                           00003150
    CALL BESS(0.0, EX, BU)
                                                                           00003160
    CALL BESS(1.0, EX.B1)
                                                                           00003170
    BALL BESS (2.0, EX.82)
                                                                           00003180
                                                                           00003190
    WRITE(6.66) EX. 3 , 81, 82
 66 FORMATITZH
           AXIAL X=1PE11.3,6H
                                 JU=1PE10.3,6H J1=1PE10.3,
                                                                           00003210
   HOX
         J2=1PE10.3)
                                                                           00003220
    AA=FAC+A+BO
                                                                           00003230
    88=FAC+B+EX+81
                                                                           00003240
    CC=FAC+C+B2
                                                                           00003250
    60 TO 100
                                                                           00003260
 20 WRITE(6,21) AUX
                                                                           00003270
 21 FORMAT(18H AXIAL SING., AUX=E15.7)
                                                                           00003280
80 TO 31
18 WRITE(6,19)CP1
                                                                           00003290
                                                                           00003300
 19 FORMAT (18H AXIAL SING., CP1=E15.7)
                                                                           00003310
    60 To 30
                                                                           00003320
100 RETURN
                                                                           00003330
    END
                                                                           000.3340
```

### 7033T 01 11-26-75 11.265

```
SJBROUTINE 3D3D(EN2, EN3, AY, AICH, ALPHA, CK, EXPR1, EXPR2) COMPLEX CAUX, EXPR1, EXPR2
                                                                              00003350
                                                                              00003360
                                                                               00003370
    #1=3.141593
    DEL=ALPHA-PI/2.
                                                                              00003380
    RABK=SORT(AY/CK)
                                                                              00013390
    #2=2.0+CK+AICH+SIN(DEL)
                                                                              00003400
    4F (ARS(Y2)-1. =-3 )10,10,11
                                                                               00013410
 10 AUX*1.0
                                                                              00003420
    60 TO 12
                                                                               00003430
 11 AUX=SIN(Y2)/Y2
                                                                              00003440
 12 EXPR1=RABK+2. +CK+AICH+AUX+CEXP(CMPLX(0.0.-P1/4.0
                                                                              00003450
   1+2.0+CK+AY+Y2))

AUX2=COS(PI/EN2)-1.0

IF(ARS(AUX2).LT.1.0E-30) GO TO 100
                                                                              00003460
                                                                              00003470
                                                                              00003480
 50 AUX3=COS(PI/EN3)-1.0
                                                                               00003490
    1F(A9S(AUX3).LT.1.0E-3') GO TO 101
                                                                              00003500
 51 CAUX=1.0/EN2+SIN(PI/EN2)/AUX2+CEXP(CMPLX(0.0,2.0+Y2))
                                                                              00003510
   101.0/EN30SIN(PI/EN3)/AUX3
                                                                               00003520
    EXPR2=RABK+CAUX+CEXP(CMPLX(".0.PI/4.0-2.0+CK+AY))
                                                                              00003530
    WRITE(6,73)
                                                                              00003340
 73 FORMATIGAH
                                                                              00003550
             ADSD)
                                                                              00003560
    60 To 102
                                                                              00003570
100 WRITE(6,2") AUX2
                                                                              00003580
 20 FORMAT(18H BDSD SING., AUX2=F15.7)
                                                                              00003590
    60 TO 50
                                                                              00003500
101 WRITE(6,21) AUX3
                                                                              00003610
 21 FORMAT (18H BOSD SING., AUX3=E15.7)
                                                                              00003620
                                                                              00003630
    60 TO 51
102 RETURN
                                                                              00093640
    END
                                                                              00003650
     END JOH
                                                                              00003660
```

Sample Input for the RADAR SCATTER FROM MISSILE Program as Output

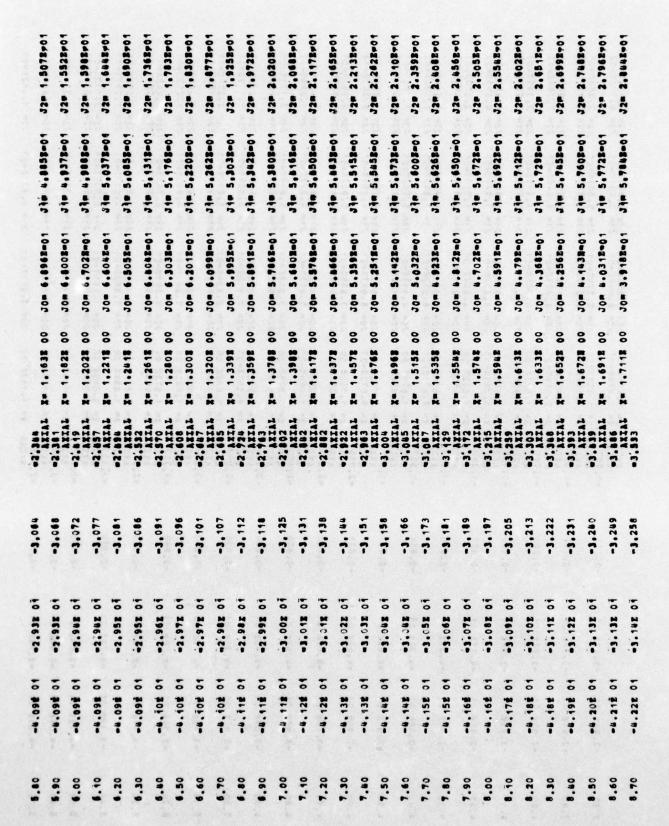
# INPUTS - SCATTER FROM MISSILE HALF HEIGHTS IN INCHES OF NOSE CONE (H1) . 1.6200000 OF BODY CYLINDER (H2) = 2.5000000 OF BODY FRUSTUM (H3) = 1,6000000 OF TAIL CONE (H4) . 0.4320000 RADII IN INCHES OF NOSE CONE BASE (A1) = 0.9000000 OF TAIL CONE BASE (A2) = 1.7000000 WAVE LENGTH IN INCHES (CLAM) = 1.0000000 ANGLES IN DEGREES OF ASPECT (AL) = 0. OF INCREMENT IN ASPECT (DELAL) = C.1000000 OF MAXIMUM ASPECT ANGLE (ALMAX) = 180,0000000

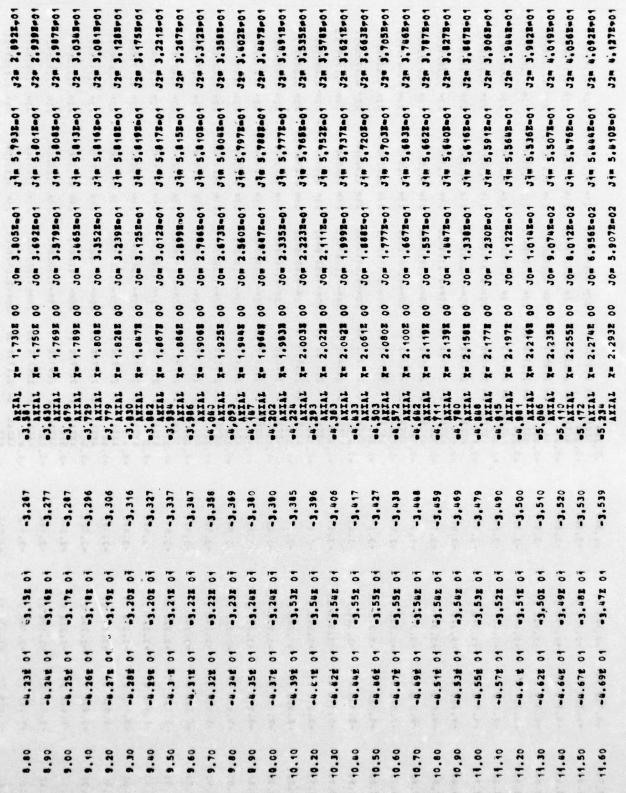
Sample Output for the RADAR SCATTER FROM MISSILE Program

	1.7388104	30 M M O C C C C C C C C C C C C C C C C C	1.5525703	1,755703	3322703	.7512703	6.466E+03 2.383E+03	1.104EF02	1.394E702	1.718EF02	2.073Er02	2.460E+02 6.980E+03	2.879Er02	3.329E#02		.3175-02	. 8558702 . 394E-02	. 420Ee02
32= 0	32= 4	32= 6					32= 2	528	32# 9	32.	52.5	32# 2	32# 2	32 9	32= 3	525	32= 6	328 8
••	1.864B-02 9.869E-03	3.726E-02	5.584E-02	7.4362-02	9.281E-02	1.112E-01 5.911E-02	1,294E-01 6,892E-02	1.8758-01 7.871E-02	1.654E-01 8.847E-02	1.832E=01 9.821E=02	2.008E-01	2.181E=01	2.353E-01	2,522E-01	2.688E-01	2.852E-01	3.012E-01	3.1702-01
25	55	55			22		55	55	55	55	55	55	55	55	* *	22	55	***
1.000 B 00	9.997E-01	9.9862-01	9.90 9.90 9.90 9.90	01111	9.913801	9.8652-01	9.830E-01	9.9382-01	9.7208-01	9.6555-01	9.584E-01	9.5068-01 9.860E-01	9.821E-01 9.836E-01	9.3308-01	9.233E-01 9.782E-01	9.1308-01	9.0212-01	8.9062-01
99	000	000					1000	000	900	000	000	000	900	000	1000	100	000	
••	3.7298702 1.974E-02	7.4572-02		1.4912.01		2.237E-01	2.610E-01	2.983E-01	3.3568-01	3.7282-01	4.1015701	4.474E+01 2.369E+01	4.8472-01	5.219Ep01 2.763Ep01	5.592E+01 2.961E+01	5.965E+01	6.336Ep01	A. 710E-01
44	**						**		44	**	**	**	44	**	44	**	**	*
HAN	AKIAL AKIAL	AKIAL AKIAL	AKIAL	AXIAL	AKINI AKINI AKINI		AXIAL	AXTAL	AXIAL AXIAL AXIAL			AXIAL AXIAL		- 441	- 4 41	PATAL .	•	-0.769
THETA V (BADIANS)	-0.7#8	-0.7#8	-0.748	-0.749	-0.749	-0.749	\$	-0.750	-0.750	-0.731	-0.751	-0.752	-0,752	56, 0		56. 6		-0.757
=:	-2.62E 01	-2.62E 04	-2.62E 01	-2.63E 01	-2.63E 01	0	-2.04E 01	0		0		-2.68E 01		0	0	-2. /45 01		-2.77E 01
PCS V (DBSM)	-2.628 01	-2.62E 01	-2.62E 01	-2.62E 01	-2.62E 01	-2.62E 01	-4.63E 31	-2.63E 01					-2.65E 01	360.7	260.71	200.5		-2.672 01
ASPECT ANGLE (DEGREES)	ċ	0.10	0.20	0.30	0.40	0.50	0.0	0.70	0.80	0.90	00.1		1.20			06.1		1.70
The E																		

1,561Ep02	6.013EP02	6.632Er02	7.276Ep02 2.116Ep02	7.9452-02	8.638E-02		1.0095-01	1.085Er01	1.162Er01 3.465Er02	1,242E701 3,719E-02	1.323E+01 3.982E+02	1.406E+01	1.490E+01	1.5762-01	1.663E#01 5.113E#02	1.751Ep01 5.416Ep02	1.840B+01 5.726E+02	1.930E-01 6.043E-02	2.021E=01 6.368E=02
32=	325	522	522	328	22		22	222	32.	325	525	220	325	32.	32	32=	32	328	22
1,748E-01	3.3242-01	3.675E-01	3.622E-01 2.026E-01		3.9052-0	4.0402		4.298E-01 2.682E-01	4.621E-01 2.570E-01	4.539E-01	4.652E-01 2.745E-01		4.865E-01 2.917E-01	4.964E-01	5.057E-01	5.146E-01	5.229E-01	5.307E-01	5.380E-01
5	22	2.2	55	55	5	5 55	55	22	55	55	55	55	55	55	55	55	25	55	2.2
- 9.687E-01	9.6522-01	9.6582-01	8.526E-01	8.388E-01		0.0978	- 0	9.3538-01	7.624E-01	7.457E-01	7.286E-0	- 0	6.932E-01	6.749E-01	6.562E-01	6.372E-01	8.8432-01	5.983E-01	8.712E-01
30.	200	555	55	205	205	000	900	000	90	900	900	2000	900	200	2000	000	2000	1000	000
- 3.552E-01	X= 7.083E-01	X= 7.4568-01	X= 7.828E-01	X= 8.201E-01	8.5738-0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.3	X= 9.691E-01	X= 1.006E 00 X= 5.328E-01	X= 1.0442 00 X= 5.5252901	X= 1.081E 00 X= 5.722E-01	X= 1.1188 00 X= 5.919E+01	X= 1.155E 00 X= 6.116E-01	X= 1.193E 00 X= 6.313E-01	X= 1.230E 00 X= 6.510E-01	X= 1.267E 00 X= 6.707E=01	X= 1.304E 00 X= 6.904E-01	X= 1.3418 00 X= 7.101E=01	X= 1.379E 00 X= 7.298E=01
* 14												44							
AXIAL	AXIAL		AXIAL	O.782	-0.786	AXIAL AXIAL	AXIAL AXIAL		THINK VARIAL	AKIAL	AXIAL AXIAL		-0-	-0.852 AXIAL AXIAL	AXIAL	AXIAL AXIAL	AXIAL AXIAL	AKIAL	AKINI AKINI 964
-0.758	-0.740			-0.761	-0.762	-0.764	-0.765	-0.767	-0.768	-0.773	-0.772	-0.774	-0.776	-0.778		-0.784	-0.787		-0.792
		;				5		•	• "	•	5	5		•					5 5
-2.79E			-2.84	-2.862	-2,882	-2.91	-2.9uE	-2.97	-3.742	-3.046	-3	-3.122	-3.172	-3.24	307.6-	-3,328			
-2.688 01	.0		10 350.7-	-2.70E 01	-2.718 01	-2.718 01	-2.728 01	-2.73g 04	-2.748 04	-2.75E 01	-2.76	-2.77ë 01	-2.785 01	-2.798 01		-2.828 01	-2 8ur 01		-2.87E 01
1.80			7.00	2.10	2.20	2.30	2.43	2.50	2.65	2.70	<b>7.8</b> 0	2.90	3.00	3.10	97.50	3.40	3.50		3.70

32= 2,112E=01 32= 6,700E=02	32= 2.204E+01 32= 7.038E+02	32= 2.297E+01 32= 7.384E+02	J2= 2,389Er01 J2= 7,737Er02	32= 2.482EP01 32= 8.096EP02	32# 2.57#EF01 32# 6.462E+02	J2m 2.666E901 J2m 8.834E902	J2# 2,758E#01 J2# 9,212E#02	J2# 2.850E-01 J2# 9.597E#02	32= 2,941EF01 32= 9,987EF02	-	J2# 3.121E*01	32= 3.210B+01	J2= 3,2978+01 J2= 1,1608+01	32m 3,3838m01	J2= 3.468E+01	J2# 3.5528#01	J2= 3.6338+01	J2= 1.3745#01	J2m 1.448EP01	32= 1.4625-01
3.691E-01	Jim 5. 5098-01	Jim 5,565Em01	34# 5.616E=01	UN 5.6618-01	JAN 5. 7018-01	Jim 5.7342m01	548 5.763E-01	CAR 5.785E-01	34# 5.4028#01 34# 4.1548#01		54 5.040E-01	548 5.8188401 548 4.9548401	548 Sp8128601	23m 5.8008m01	548 5.7838=01	44 5.760E-01	34# 5.732E=01	34= 4.720E-01	34 4.776E-01	548 4.831E601
JOE 5.583E-01	JO- 5.379E-01	JO= 5.1738-01	JOR 4.9652-01	JO# 4.755E-01	JOS 4.5448-01	JOR 4.3318-01	JOE 4.118E-01	JOH 3.9038-01		3.472890	JOH 3.2568-01	JOH 3.040E-01	JOH 2.824EH01 JOH 7.628E+01	JOE 7.541E-01	JOH 2.3938-01	JOR 2.1795-01	JOH 1.9662-01	JO- 7-179E-01	JO- 7.086E-01	JO- 6.991E-01
X# 7.416E 00	X= 1.453E 00	X= 1.490E 00 X= 7.889E-01	X= 1.527E 00 X= 6.086E=01	X= 1.565E 00 X= 8.283E-01	X= 1.602E 00	X= 1.639E 00 X= 8.677E=01	X= 1.6768 00 X= 5.8748701	X= 1.7138 00 X= 9.0708-01	X= 1.750E 00 X= 9.267E-01	-0	X= 1.825E 00 X= 9.660E-01	X= 1.862E 00 X= 9.857E-01	X= 1.899E 00	X= 1.9368 00	X 1.9738 00	X= 2.010E 00 X= 1.064E 00	X= 2.0488 00	X= 1.104E 00	X= 1.123E 00	X= 1.143E 00
ANTAL	AKIAL AKIAL	AXIAL AXIAL		AKIAL AKIAL AKIAL		AKIAL		NEAL	#2,056 AXIAL AXIAL	+2.388 AXIAL AXIAL	-2.690 AKIAL AKIAL	-2.924 AXIAL	AXIAL	AKIAL	AKIAL	AKIAL	AXIAL AXIAL	-3.684 AXIAL	AXIAL	AXIAL
100	-0.795	-0.797	0	-0.803	-0.807		7 6	)	-0.821	-0.825	-0.829	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					70 ·	-0.865	-3.05/	190.5-
		0 1	9									300			F	A RES		0		-2.93E 04
	-2.88E 01	-2.9 # 01	22.5.7	-2.938 04	-2.958 01	308.7	-2.98E 01		-3.02E 04	-3.048 04	-3.062 01	-3.08E 01	7		-3. 176 01		10 Mat - E -	-3.22E 01	10 280 01	10 360
	3.80	9.60	•	0.40			9	06.9	09.	70	08.4	06.	00.		8.30	100	07.6	05.50	00.0	00





32= 6. 162E=61			72 4.229E001	32m 4.2628p01	32m 4,298Ep01	J2= 4,3258p01	32m 4.3558+01					32m 4.468EP01	J2= 4.4958+01	32= 4.520Ero1	J2# 4,5452901			32m 4.592mp1	32= 4.618501	J2m 4.6352901	32m 4.6568p01	32= 4.6752901				J2m 4.728EF01	32m 4.7448901	32= 4.758E+01	32= 4.772Ero1	***************************************		12= 4.797EF01	72 4.808Er01
Jim 5.3768-01	10-00-01			14 5.263E-01	34m 5.223E-01	Jim 5,1628-01	Jim 5.1398-01	10- 6 ADE 0-A				24= 4.957E=01	Jie 4.908E-01	Cim 4.8598-01	Jim 4.8088-01				19 4.649E-01	Jim 4.5948-01	Jim 4.5382m01	Jim 1. 8818-01	Jem 11.1232-01			11 4. NO 8 M-01	34= 4.243E=01	Jim 4.1812-01	Jim 6.1198-01	13- " ASST_A		048 9.884E=01	Jim 3.9262m01
JOH 4. 8652-02	10- 1 6308-03		30m Z.80Z8=0Z	JO- 1.782E-02	JO- 7.706E-03	J0-2.330E-03	JOH-1.228Em02	24118-02	20-2-7-00	700073.134807	10=-4.140E=02	JOH-5.119E-02	30=-6.0688-02	JOS-7.008E-02	30=-7.8378=02	JAM-8.8578-02		JOH-9.765E-02	JOE-1.066E-01	308-1.1552-01	JOH-1.2638-01	J0=-1.329E-01	JOSE 1. 4 15E-01			JOH-1.5822-01	Jon-1.664E-01	30=-1.7442-01	JOH-1.824E-01			10-2616-1-00	JO=-2.05#E=01
X= 2.313E 00	2 3338 00			X* 2.371B 00	X# 2.390E 00	X= 2.409E 00	X= 2.4298 00			4/00.7		X= 2.5068 00	X= 2.5258 00	X= 2.544\$ 00	X= 2.563E 00				X= 2.621E 00	X= 2.6408 00	X= 2.659E 00	X= 2.679\$ 00	2.6982		4/1/2	X= 2.736E 00	X= 2.755E 00	X= 2.7748 00	x= 2.7938 00	A- 2 613E AA		2.8322	X= 2.851E 00
-5.294	-5.354	5.445	-5, 466	AKIAL S. 424		0 4		-5.68¢	-5.736	-5.786	-5. 836	AKIAL	1	AXIAL		-6.026	6.072	WE TATAL	AXIAL			-6.289 AXIAL	.6.292	-6,335	-6.377	AXIAL -6. 419	-	AKIAL	AXIAL	195.9	-6.585	46.626	18181 -6.667
-3,549	-3,558	-3,566	-3.575	-1.582		086.6-	-3.597	-3,603	-3.608	-3,612	-3,616	-3.618		-3.019	-3.618	-3.616	-3.611	-3,605	-1.595		79:6-	-3.565	-3,544	-3.547	-3.485	-3.465	100	867.67	-3.381	-3,275	-3.198	-3.112	-3.017
.3.46E 04	-3.45E 01	-3.44E 01	-3.42E 04				-9.38E 04	-3.37E 04	-9.36E 04	-3.35E Of	-3,33E 04	-4. 32P ni		-3.31E 01	-3.30E 01	-3.29E 04	-3.28E 04	-3.27E OF	-1.26E 04		10 767.6	-3.24E 01	-3.23E 01	-3.23E 0f	-3.22E 04	.1.21F Of			-3.20E 01	-3.20E 04	-3.19E 01	-3.19E 04	-3.19E 01
-4.728 04	-4.758 01	-4.978 04	-4.808 01			10 3/8 9-	-6.9 H 0.4	-4.938 01	10 316.4-	-5.00E 01	-5.048 01	-5.089 04		-5. 125 01	-5.178 01	-5.212 01	-5.268 01	-5.318 01	-5.369 01		10 319.61	-5.472 01	-5.52E 01	-5.58E 01	-5.64E 01	-8.7 % 04	10 996 9-	10 301.5		-5.882 01	-5.932 01	-5.988 01	-6.028 01
11.70	11.00	11.90	12.00	** **		12.20	12.30	13.80	12.50	12.60	12.70	12.80		12.90	13.00	13.10	13.20	13.30	13.40		06.50	13.60	13.70	13.80	13.90	18.00			16.20	18.30	18.40	18.50	18.60

	328 6.8278-01		32- 4.8632-01			32- 4.858Fr01	J2= 4, 6618+01	32= 4.868EP01																														
3.860E=01	3.793E=01	3.7268-01		3,5898-01	34# 3.519E=01			34. 3.307E-01																											2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
30=-2,1298=01	30=-2.2028=01	30=-2.2738-01	108-2.8##BB01	J0=2.413E-01	30=-2.4818=01	308-2.5478-01	JO-2.612E-01	JOH-2.676E-01	大田 日本																				中華 華 中国 医 医 医 医									
x= 2.870B	X- 2.889E	X= 2.9088	r- 2.9378	X= 2.9468	X= 2.965E	X= 2.984E	X= 3.003E 00	X= 3.022E 00																														
-6. 708	-6.748	-	14114 -6.630		141X4 -6.941	AXIAL -6,952	AXIAL •6.993	AXIAL -7. 614	-7.565	7.647	-7.749	7.768	-7.864	01.010		9 0 0		9	-6.218	-6.302	-6,343	100,300		*05.0	6.583	-8.622		-8.739	-8.778	9.0	.0.	.6,932	16.94	0.00	-9.087	-9.125	99.464	-9.263
-2,916	-2,813	-2,711	-2,694	-2,526	-2.447	-2,379	-2.332	-2.274	-1.30	-1.30	697.1-	19.50	619.1-	999	757			-1.928	696.1-	-2.049	-2.088	-2.126	-2.202	-2,239	-2.313	-2.349	-2.35	-2.457	-2.493	-2.528	-2.599	-2.634	-2.670	-2.740	-2.776	-2.81	25.04	-2.919
-3, 19E 04	-3.19E 04	-3.16E 04	-3.18E 04	-3.10E 01	-	-				-3.40K 04											-																	
-6.04E 01	-6.058 01	-6.058 01	-6.032 01	-6.012 01	-5.972 04	-5.938 01		*	.658	-5.628 04	395	225	47	**	261	398	1	292	272	335	316	100	9	371	7 7 7	100	200	072	290	350	035	.036	0.75	0 1 1	015	0.	100	0
14.70	16.80	10.90	18.00	15.10	15.20	15.30	15.40	.5.50	15.60	15.70	18.90	000	16.20	9.90											17.90						1.70	18.80	0.00	19.10				
																																					State of the same	

		********		0' 000
10.70	-5.01 01	+3, 138 05	-2.955	., 203
19.80	-5.022 01	+3.13E 01	-2.992	•9,283 •9,323
19.90	-5.022 01	-3.148 01	-3,029	-9,363
20.00	-5.03 01	-3.15E 01	-3.066	-9.403
				-0' """
20.10	-5.032 01	-3, 162 01	-3.104	-9,444
20.20	-5.042 01	-3.17E 01	-3.142	•9,486 •9,528
20.30	-\$.05E 01	-3.18E 01	-3,181	-9.528
			-3.220	-9.570
20.40	-5.062 01	-1,19Z 01		09,570
20.50	-5.07 01	-3.20E 01	-3,260	-9'.613
20.60	-5.08E 01	-3.222 01	-3,301	-9,656
			-3.342	-9' 700
20.70		-3.23E 01		-9.700
20.80	-5.912 01	-3.25E 01	-3.385	.9,745
20.90	-5.132 01	-3.26E 01	-3.428	•9,745 •9,791 •9,838
21.00	-5. 142 01	-3.28E 01	-3.473	-9.838
				-0' 446
21.10	-5.162 01	-3.302 01	-3.518	-9,885
21.20	-5.18£ 01	-3.31E 01	-3,566	-9,934
21.30	-5.272 01	-3.33E 01	-3.614	-9,984
21.40	-5.22 01	-3.35E 01	-3.665	-10.034
23.00		73,392 0]		10.01
21.50	-5.252 01	-3.37E 0	-3.717	-10,007
21.60	-5.27 01	-3.39E 01	-3.772	-10.140
21.70	-5,291 01	-3.42E 01	-3.829	-10.195
			0.00	-40 252
21.80	-5.324 01	-3.442 01	-3,868	-10,252
21.90	-5.352 01	-3.46E 01	-3,950	-10-111
22.00	-5.382 01	-3.400 01	-4.016	-10,371 -10,433 -10,497 -10,564
22 40			-4.085	-10 493
22.10				10, 433
22.20	-5.438 01	-3,53E 01	-4,158	-10,497
22.30	-5. 66 Q1	-3.55z 01	-4,235	-10.564
22.40	-5.492 01	-3.58E 0	-4.316	-10,632
				-40' 803
22.50	-5.522 01	-3.60E 01	-4.402	-10.703
22.60	-5.542 01	-3,62E 0]	-4.492	-10,777
22.70	-5.562 01	+3.64E 01	-4.587	-10.852 -10.930 -11,010
22.80			-4.686	-40' 440
22.90	-5.60£ 01	+3.682 01	-4.789	-11,010
23.00	-5.612 01	-3.70E 01	-4.895	-11,092
23.10	-5.62E 01	-3.712 01	-5.004	-41,476
23.20	-5.62E 01	-3.72E 01	-5.113	-11,261
23.30	-5.61E 01	-3.74E 01	-5.223	-11.348
23.40	-5.608 01	-3.74E 01	-5,331	-11.435
23.50		-3.75E 01	-5.437	-11,523
23.60	-5.56E 01	-3:75E 01	-5.539	-11,010
23.70	-5.542 01	-3.75E 01	-5,638	-11.610
23.80	-5,51E 01	-3.75E 01	-5.733	-11.784
			-5,823	-41 040
23.90	-5.48E 01	-3.75E 01		-11,869 -11,953
28.00	-5.45E 01	-3.74E 01	-5.908	-11,553
26.10	-5.422 01	-3.73E 01	-5,989	-12,036
		-1.728 01	-6.065	-12,116
20.20				
20.30	-5.352 01	-3.71E 01	-6.138	-12, 194
24.40	-5.32E 01	-3.70E 01	-6.207	-12.270
24.50	-5.292 01	-3.69E 04	-6.272	-12,344
24.60	-5.262 01	-3.68E 01	-6,334	-12,416
24.70	-5.238 01	-3.66E 01	-6.394	-12.485
20.80	-5.20E 01	-3.65E 01	-6.451	-12.553
The second secon				-42 440
26.90	-5. 18E 01	-3.64E 01	-6.505	-12.619
25.00	-5.152 01	-3.63E 01	-6,558	-12.682
25.10	-5.138 01	-3.62E 01	-6.609	-12.745
25.20	-5.112 01	-9.60E 01	-6.658	-12.805
25.30	-5.092 01	-3.59E 01	-6.706	-12,864
25.40	-5.07E 01	-3.59E 0 IV-37	4 -6.753	-12.922
25.50		-3.58E 01	-6.798	-12.979
25,50	-5.05E 01	-31302 01	. 01,10	14.513

1

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25.60	-5.042 01	-3.57E 01	-6,843	-13.035
25.70	-5.04¥ 01	57 0	-6,886	-13,035 -13,090
25.80	-5.012 01	-3.56E 01	-6,929	-43 444
		73.552 01		-13,144 -13,197 -13,250
25.90	-5.002 01	-3,56E 01	-6.972	-13,197
26.00	-4.99E 01	-3.56E 01	-7.014	-13,250
26.10	-4.992 01	-3.55E 04	-7.056	-13.303
26.20	-4.988 01	-1.56E 01	-7.007	-13,356 -13,408
26.30		11.71		-13,300
	-4.982 01	-1.56E 01	-7.139	-13.000
26.40	-4.982 01	-3.56E 01	-7.180	-13,460
26.50	-4.982 01	-3,57E 01	-7.222	-13,513
26.60	-4.98£ 01	-3.57E 01	-7.264	-13.566
26.70	-4.992 01	-1,582 01	-7.306	-13,566 -13,619
26.80				-42'492
		-3.59E 01	-7.349	-13,673
26.90	-5.002 01	-3.60E 0	-7.392	-13,728
27.00	-5.012 01	-3,61E 01	-7.436	-13.784
27.10	-5.02E 01	-3.63E 01	-7.482	-13,704 -13,841 -13,900 -13,960
27.20	-5.042 01	-3.642 04	-7.528	-43.900
27.30	-5.062 01	-1.66E 01	-7.576	-42 040
27 40				13,440
27.40	-5.082 01	-3.68E 0	-7.625	-14,023
27.50	-5.102 01	-3.70E 01	-7.677	-14.087
27.60	-5.128 01	-3.72E 01	-7.731	-14.154
27.70	-5. 152 01	-3.74E 01	-7.787	-14,154 -14,224 -14,297 -14,373 -14,453
27.80	-5. 182 01	-3.772 01	-7.847	-44 297
27.90			-7.911	-44' 303
	-5.212 01	-3.79E 01	7.311	-14,373
28.00	-5.242 01	-3.81E 01	-7.979	-14,453
28.10	-5.28E Q1	-3.84E 01	-8.052	-14,537 -14,626
28.20	-5.32E 01	-3.86E 01	-8.132	-14.626
28.30	-5.352 01	-3.88E 01	-8,218	-44 749
28.40			-8,312	-44 947
28.50	-5.432 01	-3.91E 01	-8.415	-14,719 -14,817 -14,918
28.60	-5.478 01	-3.93E 01	-0.527	-15,024
28.70	-5.502 01	-3.94E 01	-8.649	-15,024 -15,133
28.80	-5.52E 01	-3.94E 01	-8.780	-15.245
28.90	-5.542 01	-3.94E 01	-8,919	-15.357
				13,33,
29.00	-5.542 01	-3.93E 01	-9.063	-15.670
29.10	-5.53# 01	-3,92E 01	-9.210	-15,582
29.20	-5.52E 01	-3.90E 01	-9.355	-15,691
29.30	-5.482 01	-3.87E 01	-9.496	-15,797
29.40	-5.44E 01	-3.85E 01	-9.629	-15.900
29.50	-5.4 2 01	-3,82E 01	-9.753	-15.998
				-13,990
29.60	-5.342 01	-9.78E 01	-9,867	-16.091 -16,179
29.70	-5.292 01	-3,75E 01	-9.972	-16, 179
29.80	-5.23E 01	-3.71E 01	-10.067	-16,263
29.90	-5.182 01	-3.68E 01	-10.154	-10.342
30.00	-5.12£ 01	-3.64E 01	-10,234	-16' 447
30.10			-10.307	-16,417 -16,488 -16,555
		-3,61E 01	10.30	-10,000
30.20	-5.012 01	-1.57E 01	-10.374	-10,555
30.30	-4.962 01	-3.54E 01	010.437	-16,619
30.40	-4.922 01	-3.51E 01	-10.496	-16,680
30.50	-4.87£ 01	-5.48E 01	-10.550	-16,739
30.60				-46 905
		-3.45E 0	-10.602	-16.795
30.70	-4.798 01	-3.42E 01	+10.651	-16.848
30.80	-4.752 01	-3.392 01	-10.698	-16.900
30.90	-4.718 01	-3.374 0	-10.743	-16,950
31.00	-4.682 01	-3.34E 01	-10.786	-16.999
34.10	-4.65E 01	-3.32E 01	-10.827	-17,046
				-43
31.20	-4.622 01	-3.30E 01	-10.867	-17.092
31.30	-4.59£ 01	-3.20E 01	-10.907	-17.137
31.40	-4.57E 01	-3.27E 01 IV	-375-10.945	-17.181

			44 000	49' 00"
31.50	-4.558 01	+3.25% 03	-10.982	-17,224
31.50	-4.531 01	-3.24E 01	-11.018	-17,266
34.70	-4.512 01	-3.22E 04	-11.054	-17,308
			-11.090	-47 140
31.80			411.000	-17,349
31.90	-4.482 01	-3.20E 01	-11,135	-17,390 -17,431 -17,471 -17,511
32.00	-4.662 01	-3.20E 01	-11.159	-17.431
39 40			-11,194	-47 494
32.10	-4.458 01	-3,198 03		
32.20	-4.44 01	-9:19E 03	-11.228	-17.511
32.30	-4.442 01	-3. 18E 04	-11.262	-17,552
				-47' 880
32.40	-4.632 01	-3, 10E 01	-11,297	-17,592
32.50	-4.432 01	-3. 18E 04	-11.331	-17,632
32.60	-4.431 01	-3.18E 01	-11.366	-17,673 -17,713 -17,784
		730 00		4.7
32.70	-4.432 01	-3.19% 01	-11.400	-1/,713
32.80	-4.43E 01	-3.19E 01	-11,436	-17.784
32.90	-4.44 01	-3.202 01	-11.471	-17.796
				481 444
33.00	-4.642 03	-3,218 01	-11.508	-17.838 -17.881
33.10	-4.458 01	-3.22E 01	~14.545	-17.881
33.20	-4.464 01		-11.582	-47' 925
				1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
33.30	-4.47E 01	-3.24E 01	-11.621	-17,925 -17,969
33.40	-4.492 01	-3.26E 01	-11,661	-18,015
33.50	-4.518 01	-3.272 01	-11.702	-18,062
	100 miles 100 mi			
33.60	-4.53E 01	-3.29E 01	-11.745	-18,110
33.70	-4.55£ 01	-3.31E 01	-11.790	-18,160 -18,211 -18,264 -18,320
33.80	-4.57± Q1		-11.836	-48 234
				-10,01
33.90	-4.6 2 01	-3.35E 04	-11,885	-10,294
30.00	-4.622 01	-3.38E 01	-11.936	-18.320
	-4.652 01	-3.40E 01	-11,991	-48 178
34.10				-18,378
38.20	-4.69£ 01	-3.43E 01	-12.049	-18,438
34.30	-4.722 01	-3.46E 04	-12.111	-18,501 -18,568 -18,638
			-12.177	-48 868
34.40				10,500
34.50	-4.79± 01	-3.51E 01	-12.249	-10,030
34.60	-4.83± 01	-3.54E 04	-12,326	-18.791
and the second s	-4.878 01		-12.410	
34.70		-3.572 01		-18,788
34.80	-4.912 01	-3.60E 01	-12.501	-18,869
34.90	-4.952 01	-3.62E 04	-12.599	-18,955
35.00	-4.982 01	-3.65E 04	-12.705	-19.044
				-40' 406
35.10	-5.012 01	-3.67E 01	-12.819	-19,136
35.20	-5.03E 01	-3.69E 04	-12.938	-19.232
35.30	-5.05# 01	-3.71E 09	-13.063	-19.331
				-40 000
35.40	-5.65E 01	-3.72E 01	-13.191	-19.432
35.50	-5.05# 01	-3.738 01	-13.320	-19:534
35.60	-5.04E 01	-3.73E 01	-13.446	-19,636
35.00			-13,568	-19.737
35.70	-5.022 01	-3.73E 04	413,300	-13,131
35.80	-4.992 01	-3.72E 01	-13.685	-19.837
35.90	-4.962 04	-3.71E 01	-13.794	-19.934
				-20 498
36.00	-4.938 01	-3.70E 01	-13.896	-20.028
36.40	-4.89E 01	-3.69E 04	-13.990	-20:119
36.20	-4.85E 01	-3.67E 04	-14.077	-20.206
				-20 000
36.30	-4.81E 01	-3.65E 01	-14.157	-20,289
36.40	-4.77£ 01	-3.648 04	-14,231	-20.368
36.50	-4.742 01	-3.62E 01	-14,300	-20.443
36.60	-4.772 01	-3.60E 02	-14.364	-20,545
36.70	-8.672 01	-3.58E 04	-14.423	-20.584
36.80	-4.642 01	-3.57E 04	-14.479	-20,650
		COLUMN TO SERVICE STREET, COLUMN TO SERVICE		
36.90	-4.622 01	-3.56E 04	-14.532	-20.713
37.00	-4.59£ 01	-3.54E 01	-14,582	-20.773
	-4.57E 01	The second secon	-14,630	-20.832
37.10				
37.20	-4.562 01	-3.528 01	IV-376-14.676	-20,889
37.30	-4.542 01	-3.52E 04	IV-376-14.076	-20.944

			. 7		
37.40	-4.53g 01		01	-14,763	-20,997
37.50	-4.528 01	-3.51E	01	-14,805	-21,050
39 40				-44 946	- 3 4 4 4 3 3
37.60	-4.528 0	-3,51E		-14,846	-21,102 -21,153 -21,204
37.70	-4.51E 01	-3,512	01	-14.896	-21.453
					-24 204
37.80	-4.512 0	-3,522	01	-14.926	-21.204
37.9.0	-4.528 01		01	-14.966	-21,256
		7.4.4.4			
38.00	-4.538 01	-3.54E	01	-15.006	-21,307
38.40	-4.542 01		09	-15.046	-21,359
			v1		
38.20	-4.852 01	-3.57E	01	-15.086	-21.612
36.30	-4.578 03			-15,128	-21 467
				131194	4 1 4 4 1
38.40	-4.592 01	-3.61E	01	-15.171	-21,412 -21,467 -21,523 -21,581 -21,642
					-24 684
38.50	-4.622 0	-3.64E	01	-15,215	41,341
38.60	-4.65E 0	-3,67Z	01	-15.262	-21.642
	-4.69 0	-3.70E		-15.311	-21.707
38.70			01		-610101
38.80	-4.732 04	-3:74E	04	-15.364	-21.776
				-15.422	-21.776 -21.850
38.90	-4.782 0		01		-61.000
39.00	-4.832 01	-3.82E	01	-15.485	-21.930
				-46 687	-22' 440
39.10	-4.892 0		01	-15,557	-22.018
39.20	-4.962 01	-3.92E	01	-15.638	-22, 115
					-22 222
39.30	-5.038 01	-3,962	01	-15.732	-22,222
39.40	-5.11E 01	-4.01E	01	-15.843	-22,341 -22,473 -22,618
					-22 492
39.50	-5.192 0	-4,05E	0 9	-15.976	-66,473
39.60	-5.26E 01	-4.09E	01	-16.136	-22.618
				-44 224	- 32' 99"
39.70	-5.338 0			-16,326	-22,774 -22,938
39.80	-5.382 01	-4.122	01	-16,545	-22.938
			Company of the Compan		-32 348
39.90	-5.38£ 0		01	-16.783	-23,105
40.00	-5.35g 01	-4.09E	01	-17.019	-23.269
			- 1		-02 406
40.10	-5.292 01	-4.06E	01	-17.237	-23,269 -23,426 -23,571 -23,704
40.20	-5.2 2 01	-4.01E	01	-17,425	-23' 571
				49 643	22 244
40.30	-5.102 01	-1.95E	01	-17,583	-23.704
49.40	-5.002 01	-3.90E	01	-17.714	-23,823
			The second secon		22' 220
40.50	-4.90E 01	-3.83E	01	-17.822	-23,930
40.60	-4.81E 01	-3.77E	01	-17.914	-24.026
		-30112			
40.70	-4.732 01	-3.71E	01	-17,993	-24.112
40.80	-4.652 01		01	-18,061	-24.190
			Vi		
40.90	-4.57E 01	-3.60E	01	-18,122	-24,261
41.00	-4.512 01			-18.176	-24.327
41.10	-4.442 01	-3.50E	01	-18,226	-24.387
41.20	-4.392 01			-18,272	-24,443
41.20					
41.30	-4.342 0	-3.42E	01	-18,314	-24.490
41.40	-4.29E 01			-18.354	-24.546 -24.594 -24.640 -24.684 -24.727 -24.768 -24.809
				- 10 - 30 -	
41.50	-4.25g 01	-3.34E	01	-18,392	-34,594
41.60	-4.212 01		01	-18.428	-24 640
				4.00	
41.70	-4.172 01		01	-18,463	-34,044
41.80	-4.142 01	-3.26E	01	-18,497	-24 727
		-3.22			211 200
41.90	-4.112 01	-3.23E	01	-18,530	-44,700
42.00	-4.092 01	-3.21E	01	-18,562	-24' 800
			V :		
42.10	-4.06g 01	-3.20E	01	-18,594	-24,849
42.20	-4.052 01		01	-18.626	-24.849 -24.888
					24,000
42.30	-4.032 01	-3.17E	01	-18,657	-24,927
				-18,689	-24.967
42.40	-4.022 01				64.90/
42.50	-4.012 01	-3,15E	04	-18,720	-25.006
			PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	-18,752	-25' 445
42.60	-4.002 01		01		-25,045 -25,085 -25,125
42.70	-4.0.2 01	-3.15E	0]	-18,784	-25,085
42.80	-3.99E 0			-18.817	-25 495
					20, 120
42.90	-4.0 2 01	-3.15E	01	-18,851	-25.166
43.00	-4.00 O	A CONTRACTOR OF THE PARTY OF TH	Committee of the Commit	-18,886	-25.208
			01		20.200
43.10	-4.012 01	-3.16E	01 277	-18,921	-25,250
43.20	-4.02E 01		04 IV-377	-18.958	-25.294
13.20	-0.02E 01	-3.1/E	V1	- 101730	

. The second second

43.30	-4.032 01	188 0	-18.997	-25,340
43.40		93, 18E 0		-25 247
43.00	-4.052 01	-3.20E 0		-25.387
43.50	-4.07± 01	-3.22E 0		-25,436 -25,468 -25,542
43.60	-4.092 01	-3.23E 0	-19.126	-25.488
43.70	-4.11E 01	-3.25E 0		-25.542
				-05 500
43.80	-4.142 01	-3,28E 0		-25,599
43.90	-4.178 01	-3.30E 0	-19,281	
44.00	-4.20E 01		-19,341	-25,723
		- 244 4		-25,723 -25,790 -25,862 -25,939
44.10	-4.23E 01	-3.35E 0		-23,730
44.20	-4.27E 01	-3,38E 0	-19.478	-25,862
44.30	-4.312 01	-3.41E 0	-19,556	-25.939
				-26,020
44.40				-20,020
44.50	-4.382 01	-3.46E 0		-26,406
48.60	-4.412 01	-1.48E 0	-19.837	-26.197
44.70	-4.442 01	-3.50E 0		-26,292
A CONTRACT OF THE PARTY OF THE				-26.391
44.80	-4.46E 01	-3.52E 0		-20,391
44.90	-4.482 01	-3.53E 0		-26,493
45.00	-4.88E 01	-3.54E 0	-20.313	-26,596
45.10	-4.488 01	-3.54E 0		-26.701
45.20	-4.46£ 01	-3.53E 0		-26,804
45.30	-4.442 01	-3.53E 0	-20.685	-26.906
45.40	-4.41E 01	-3.51E 0		-27,005
				-27.100
45.50	-4.382 01	-3.50E 0		
45.60	-4.342 01	-3.48E 0	-21.001	-27, 190
45.70	-4.30E 01	-3.46E 0		-27,276
45.80	-4.26± 01		-21,170	-27, 357
			# 2000 (1980 N. H. 1980 N. H. 1980 H.	-27,357 -27,433
45.90	-4.222 01	-3.41E 0	-21.244	-27.633
46.00	-4.182 01	-3.39E 0	-21,311	-27.504
46.10	-4.158 01	-3.37E 0		-27,571
				-27,634
46.20	-4.122 01	-3,35E 0		-21,034
46.30	-4.098 01	-3.33E 0	-21.481	-27.693
46.40	-4.062 01	-3.31E 0	-21.529	-27,750
46.50	-4.04£ 01		-21.574	-27,803
				-27,854
46.60	-4.02E 01	-3.29E 0		-21,054
46.70	-4.00£ 01	-3.28E 0	-21.656	-27,903
46.80	-3.992 01	-3.27E 0	-21,693	-27,949
46.90				-27,995
	-3.982 01			
47.00	-3.972 01	-3.27E 0	+21,763	-28.038
47.10	-3.972 01	-3.28E 0	-21.796	-28.081
47.20	-3.978 01	-3.28E 0		-28,123
				-28.165
47.30	-3.98E 01	-3.29E 0	721.00	-20,105
47.40	-3.99£ 01	-3.31E 0		-28,207 -28,248
47.50	-4.01E 01	-3.33E 0	-21,921	-28.248
47.60	-4.032 01	-3.35E 0		-28 290
				-28,290 -28,333
47.70	-4.052 01	-3.38E 0		-20,333
47.80	-4.08 01	-3.41E 0	-22,012	-28,378
47.90	-4. 122 01	-3.45E 0	-22.044	-28.424
		"		-28.473
48.00	-4.17E 01	-3.49E 0		-20.873
48.10	-4.22E 01	-3.54E 0		-28.525
48.20	-4.28E 01	-3.60E O	-22.149	-28.582
48.30	-4.352 01	-3.66E 0		-28.645
				-20 347
48.40	-4.432 01	-3.73E 0		-28.717
48.50	-4.53E 01	-3.81E 0	-22.290	-28.799
48.60	-4.642 01	-3.90E 0		-28.896
				-29.013
48.70	-4.78E 01	-0.00E 0		
48.80	-4.942 01	-4.10E 0	-22.552	-29, 157
48.90	-5.13E 01	-4.20E 0	-22.718	-29.337
49.00	-5.35E 01	-4.28E 0		-29.557
			1117 270	-29,815
49.10	-5.52£ 01	-4.33E 0	723,337	-27,013

A STANDARD S

49.20	-5.52g 01	-4.33E 01	-23,923	-30,089
49.20	-5.52g 01	272 0	-24,356	90' 950
				-30,350
49.40	-5.128 01	-4.18E 01	-24.632	-30.574
	- " 0 4 4 0 3			-30,758 -30,905 -31,023
49.50	-4.912 01	-4.08E 01	-24,805	-30.758
49.60	-4.738 01			-10'005
		-3.97E 01	-24.921	-30,900
42.70	-4.582 01	-3.86% 04	-25.006	-11 493
			-20.000	-81.000
49.80	-4.44 04	-1.77E 01	-25.072	-31.121
				-31,203 -31,273 -31,335 -31,390 -31,440
49.90	-4.332 01	-3.68E 01	-25, 125	-31.203
50.00	-4.232 01	-1.60E 01	-25.171	-31.273
50.10	-4.158 01		-25,210	-94 925
				-51,333
50.20	-4.07£ 01	-3.46E 01	-25,246	-91 390
		-3.402 01		-41,230
50.30	-4.002 01	"3.40E 04	-25.279	-31-440
50.40	-3.942 01	-3.35E 01	-25,309	-31.487
50.50			-28 290	
	*3,898 01	-3,30E 04	-25,339	-31,530
50.60	-3.84E 01	-3.26E 01	-25,367	-31,571
				-31,311
50.70	-3.80± 01	-3.22E 01	-25,394	-31.611
50.80	-3.77E Q1	-3.19E 01	-25.421	-31.649
				- 24' 444
50.90	-3.742 01	-3.16E 01	-25,448	-31,686
51.00	-3.718 01	-3.14E 01	-25.474	-31,723
31.00				-21,143
51.10	-3.69g 01	-3.12E 01	-25,502	-31,760
-1				
51.20	-3.682 01	-\$.11E 01	-25,529	-31,797 -31,834 -31,872
51.30			-20 587	
21.30	-3.66t 01	-3. 10E 01	-25,557	-31,834
51.40	-3.662 01	-3.09E 01	-25.587	-94 992
				-01,012
51.50	-3.65E Q1	-3.092 01	-25,617	-31,991 -31,951
F 7 40			4. 4.44	
51.60	-3.65 01	-3.09E 01	-25.649	-31.951
51.70			-28 684	-94 003
21.10		-3.09E 01	-25,683	-31.773
51.80	-3.66g 01	-3.10E 01	-25,718	-12' 426
			720110	-32,036 -32,082 -32,131
51.90	-3.68E Q1	-3.11E 01	-25.757	-12.082
F9 44				77,012
52.00	-3.69£ 01	-3.12E 01	-25.798	-32,131
52.40				-33' 483
	-3.71E 01	-3.14E 01	-25.843	-32, 182
52.20	-3.732 01	-3.16E 01	-25.891	-32 228
				-32,238
52.30	-3.76± 01	-3.18E 01	-25.945	-32,297
52.40	-3.79£ 01	-3.20E 01	-26.004	-32.361
52.50	-3.822 01	-3,22E 01	-26,070	-32.430
52.60	-3.86E 01		-26.144	-32.506
			-50.144	
52.70	-3.89± 01	-3.28E 01	-26.226	-32.587
				32.007
52.80	-3.93E 01	-3.30E 01	-26,318	-32.675
52.90	-3.962 01	-1.32E 01	-26,420	-32,769
53.00	-3.992 01		-26,532	-32' 000
				-32.870
53.10	-4.01E 01	-3.35E 01	-26.654	-32,976
		-3.354 01		22,010
53.20	-4.022 01	-3.36E 04	-26.784	-33.087
53.30			-24 040	22.
	-4.02E 01	-3.36E 01	-26,918	-33,20
53.40	-U.01E 01	-3.35E 01	-27,052	-33.313
			-21,002	-33,313
53.50	-3.98£ 01	-3.34E 01	-27.184	-33.425
53.60	-3.95g 01	-3.32E 01	-27.308	-33.534
53.70	-3.91 01		-27.423	-32 697
				-33,03/
53.80	-3.86g 01	-3.26E 01	-27.528	-33, 447
53.90	-3.81E 01	-3.23E 01	-27,623	-33. 824
54.00				- 22
	-3.76£ 01	-3,192 01	-27.707	-33,425 -33,534 -33,637 -33,734 -33,824 -33,907
54.10	-3.71E 01			-93' 80"
			-27,782	-33.984
54.20	-3.66E 01	-3.12E 01	-27.849	-34.055
54.30	-3.612 01	-3.09E 04	-27.909	-34,119
		12.12.1		
54.40	-3.572 01	-3.05E 01	-27.962	-34.479
54.50				-34 994
		-3,022 09	-28.011	-34,234
54.60	-3.492 01	-3.00E 01	-28.054	-34.284
				24,204
54.70	-3.46£ 01	-2.97E 01	-28,094	-34,331
54.80	-3.43E 01	-2.95E 01	-28.130	-34,375
54.90	-3.472 01	-2.93E 01	-28,164	-34.446
		-Z. 336 V] TT	370	-44,010
55.00	-3.388 01	-2.92E 011V-	379-20.195	-34.455
				641633

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PRC INFORMATION SCIENCES CO ROME N Y SPACE SURVEILLANCE SOFTWARE SUPPORT. VOLUME 1. PART 1. BOOK 2. --ETC(U) F30602-75-C-0167

UNCLASSIFIED

RADC-TR-76-261-VOL-1-PT-1- NL

Sof 5
A033351A

END
PLANE
FILME

		'A' 000 07	- 20 224	- 24' 400
55.10	-3.362 01	-2.90E 01	-28,224	-34,642
55.20	-3.35E 01	-2.90E 01	-28.251	-34, 692 -34, 527
55.30	-3.342 01	-2.89E 01	-28,277	-34,560 -34,592 -34,624
55.40		-2.89E 01	-28.301	-34 592
		72.012 01		-34 634
55.50	-3.338 01	-2,892 01	-28,324	
55.60	-3.53 01	-2.902 01	-28.347	-34,654 -34,685 -34,744 -34,775
55.70	-3.342 01	-2.912 01	-28,368	-34,685
			-28,389	-94 944
55.80	-3.352 01	-3:922 01		
55.90	-3.372 01	-2.94E 01	-28.410	-34,744
56.00	-3.398 01	-2.972 01	-28.430	-34,775
			-28.450	-34.805
56.10	-3.428 01			
56.20	-3.45E 01	-3.032 01	-28.471	-34,837
56.30	-3.492 01	-3.07E 01	-28.492	-34,871
56.40	-3.542 01	-3.12E 01	-28.514	-34,906 -34,944 -34,986
				- 24 044
56.50	-3.599 01	-3. 17E 01	-28,537	-30,900
56.60	-3.66£ Q1	-3.23E 01	-28,561	-34,986
56.70	-3.738 01	-3.30E 01	-28,588	-35.033
		-3.38E 01	-28,619	-35,033 -35,086
56.80	-3.82E 01			35,450
56.90	-3.922 01	-3.48E 01	-28,655	-35, 150
57.00	-4.04E 01	-3.582 Q1	-28,699	-35,226
57.10	-4.192 01	-3.702 04	-28,756	-35,323
		-1 -1 - 0 - 0 - 1	-28,836	-35 448
57.20	-4.37E 01	-1.83E 01		-35,150 -35,226 -35,323 -35,448 -35,617
57.30	-4.59£ 01	-3,97E 01	-28,957	-35,61/
57.40	-4.878 01	-0.112 01	-29,171	-35,847
57.50	-5.182 01	-4.21E 01	-29,598	-36,149
			-30,313	-36 496
57.60	-5.27E 01	-4.23E 01		-30,000
57.70	-5.012 01	-4. 16E 01	-30,882	-36,496 -36,825 -37,087
57.80	-4.702 01	-4.04E 01	-31,168	-37.087
57.90	-4.452 01	-3.90E 01	-31.321	-37,282
				-97' 425
58.00	-4.252 01	-3,76E 01	-31.416	-37,425
58.10	-4.09E 01	-3.64E 01	-31.481	-31,534
58.20	-3.962 01	-3.542 01	-31.530	-37,619
58.30	-3.84E 01	-3.44E 01	-31.569	-37,534 -37,619 -37,688 -37,746
				-37 746
58.40	-3.75# 01	-3.36E 01	-31,602	-37,780
58.50	-3.672 01	-3.29E 01	-31.631	-37,796
58.60	-3.60 01	-3.23E 01	-31.658	-37,841
58.70	-3.542 01	-3.18E 01	-34.682	-37.882
				-97 090
58.80	-3.49E 01	-3.13E 01	-31.705	-37,920 -37,956 -37,991
58.90	-3.452 01	-3.09E 01	-31.728	-37,750
59.00	-3.422 01	-3.06E 01	-31.751	-37.991
59.10		-3.04E 01	-31.773	-38.025
				-38,025 -38,089
59.20	-3:38E 01	-3.02E 01	-31.797	-36,059
59.30	-3.362 01	-3.01E 01	-31.821	-38.094
59.40	-3.36E 01	-3.01E 01	-31.847	-38.130
59.50	-3.368 01	-3.01E 01	-34.874	-38, 167
				-20 206
59.60	-3.368 01	-3.01E 01	-31.904	-38.206
59.70	-3.38% 01	-3.02E 04	-31.937	-38.249
59.80	-3.40£ 01	-3.00E 01	-31.974	-38.295
			-32.016	-38,346
59.90	-3.428 01	-3.06E 01		-30,300
60.00	-3.462 01	-3.09E 01	-32.063	-38.402
60.10	-3.5)\$ 01	-3.12E 01	-32.119	-38,465
60.20	-3.548 01	-3.16E 01	-32.184	-38,537
				-30' 600
60.30	-3.598 01	-3.20E 01	-32,261	-38,620
60.00	-3.65£ 01	-3.24E 01	-32.354	-38.714
60.50	-3.712 01	-3.20E 01	-32.467	-38.824
			-32.604	-38,949
60.60	-3.772 01	-3.32E 01		
60.70	-3.82E 01	-3,35E 01	-32.765	-39.089
60.80	-3.842 01	-1.37E 01	-32.950	-39.244
60.90	-3.852 01	-3.37E 01IV-	380 -33.150	-39.406
00.00	31435 01	-3.0.		

61.00	-3.81m 01	-1.342 01	-33,351	-37,570
61.10	-3.75 01	34 2 0 1 3 3 1 0 0 1 3 2 5 2 0 1	-33,538	-39,728
61.20	-3.67 01	-\$ 28E 01	-33.702	-19.174
44 40		14.14		-40 004
61.30	-3.568 01	-3, 192 0	-33.841	-39,570 -39,728 -39,874 -40,004 -40,118
61.40	-3.491 01	-9,12E 01	-33,955	-40.118
61.80	-3.394 01	-3,048 01	-34.050	-40.246
41 40		-4 09- 01	-34,127	-40' 904
64.60	-3.300 01	-2.97m 01	34	-00,301
61.70	-3.228 01	-3.90E 01	-34, 192	-00,374
61.80	-3. 144 01	-2.84E 01	-34,246	-40.437
61.90	-3.078 01	-2,782 03	-34,293	-40,216 -40,301 -40,374 -40,483 -40,541
				-40'844
62.00	-3.018 01	-2.72E 01	-34,333	-00,561
62.10	-2.95 01	-2,672 05	-34.367	MA1464
62.20	-2.892 01	-2.62E 01	-34,398	-40,623
			-34,425	-40.658
62.30	-2.858 01			
62.40	-2.808 01	-2.54E 0]	-34.449	-40,690 -40,719
62.50	-2.768 01	-2.518 01	-34,471	-40.719
62.60	-2.738 01	-2.48E 01	-34.491	-40,745
		I	-24 800	-40' 974
62.70	-2.708 01	-2,45E 01	-34.509	-40,771
62.80	-2.688 01	-2.43E 01	-34,527	-40.794
62.90	-2.66% 01	-2.42E 0]	-34,543	-40.817
		-2.40E 01	-34,558	-40.817 -40.838
63.00				-40' 000
63.40	-2.638 01	-3.401 01	-34,573	-40,889
63.20	-2.63E 01	-2.39E 01	-34.588	-00.000
63.30	-2.634 01	-2,398 01	-34,602	-40,000
48 40		-2.40E 01	-34,616	-40.921
63.40	-2.638 01	-2.40E 01		40' 444
63.50	-2.645 01	-2.418 01	-34,631	-40,941
63.60	-2.652 01	-2.42E 01	-34,645	-40.962
63.70	-2.678 01	-2.448 01	-34.661	-40.985
				-40,985
63.80	-2.699 01	-2.46E 01	-34.677	-01,000
68.90	-2.728 01	-2.498 03	-34,695	-41,033 -81,060 -81,089 -81,123
68.00	-2.758 01	-2.53E 01	-34.714	-61.060
			-34,736	-41 080
64.10		-2,57# 01		- 0.4
64.20	-2.842 01	-9.62E 0	-34,760	-01,123
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64.40	-2.962 01	-2.73E 01	-34,821	-41,205
			-34,861	-44 986
64.50	-3.048 01	-2.60E 01		-41,256
64.60	-3.138 01	-2.88E 01	-34.911	-01.319
68.70	-3.228 01	-2.97# 01	-34,974	-41.319
68.80	-3.342 01	-3.06E 01	-35,055	-41.490
		73,000 01		-44 434
64.90	-3.468 01	-3.168 01	-35, 165	
65.00	-3.60g 01	-3,16E 01	-35,317	-41,611 -41,764 -41,985
65.10	-3.73£ 01	-3.358 01	-35,526	-41.955
65.20	-3.838 01	-9.41E 01	-35,802	-42' 482
03.20		43.414 01	-26 126	-42,182 -42,429
65.30	-3.852 01	-3,420 01	-36,125	-46,467
65.40	-3.798 01	-3.39E 0]	-36.435	-42,669
65.50	-3.682 01	-3.31E 01	-36,685	-42.878
			-36,868	-41 440
65.60	-3.542 01	-3,222 01	-30.000	-43,049
65.70	-3.418 01	·\$, 132 01	-37,000	-03,103
65.80	-9.298 01	-3.03E 01	-37.096	-43,288 -43,371
65.90	-3. 188 01	-2.988 07	-37.167	-43.371
				-40 400
66.00	-3.092 01	-2.87E 01	-37.222	-43,437 -43,491 -43,535
66.10	-3.018 01	-2,002 03	-37.264	-43,491
66.20	-2.948 01	-2.74E 01	-37,297	-43.535
		40- 61	-37.324	-43' 892
66.30	-2.698 01	-2,69E 0]	- 30 345	-43,572
66.40	-2.84E 01	-2.65E 01	-37.345	-43,603
66.50	-2.808 01	-2,618 01	-37.363	-43,630
66.60	-2.77É 01	-2.50E 01	-37.378	-43.684
				-43,630 -43,684 -43,674
66.70	-2.758 01	-2.578 01	-37.389	
66.80	-2.738 01	-2.56E 01	IV-381-37,399	-43.692

66.90	-2.73E 01	-2.56E 01	-37.407	-43,708
67.00	-2.73m 01	-2.57E 01	-37.413	-43, 723
			30 449	-43,737 -43,751 -43,764 -43,777 -43,790
67.10	-2.742 01	-2,58E 01	-37.417	-03,737
67.20	-2.775 01	-2.61% 01	-37.421	-43.751
48 40				-42 944
67.30	-2.80E 01	-2.64E 01	-37,422	-03,704
67.00	-2.852 01	-2,69E 0]	-37,423	-43.777
49 40				-42 200
67.50	-2.912 01	-2,75E 01	-37,422	-03,770
67.60	-2.982 01	-2.82E 09	-37,419	-43,806
				-43,806 -43,823 -43,846 -43,877 -43,926 -44,021
67.70	-3.08± Q1	-2.92E 01	-37.413	-03,033
67.80	-3.218 01	-1.04E 01	-37.404	-43.846
67.90	-3.378 01	-1.21E 01	-37.309	-03.07/
68.00	-3.61E 01	-3.43E 07	-37,363	-43.026
68.10	-3.962 01	-3.74E 01	-37.306	-84,021
68.20	-4.602 01	-4.26E 04	-37,112	-44,283
68.30	-5.30m 01	-4.81E 01	-35.249	-45.484
68.40	-4.202 01	-4. 10E 01	-34,557	-46,432
		777		
68.50	-3.675 01	-5.58E 04	-34,452	-46.640
68.60	-3.338 01	-3.24E 01	-34.411	-46,721
		77,000		
68.70	-3.08# 01	-2.98E 01	-34,389	-46,763
68.80	-2.888 01	-2.78E 01	-34,374	-46.789
				""
68.90	-2.71E 01	-2.62E 01	-34,364	-40.507
69.00	-2.578 01	-2.47E 01	-34,356	-46 849
03.00				7.27.22
69.40	-2.452 01	-2.35E 01	-34.349	-46,789 -46,807 -46,819 -46,828
69.20	-2.34E 01	-2.25E 01	-34,343	-46,436
		70077		
69.30	-2.252 01	-2.15E 01	-34,338	-46,841
69.40	-2.16# 01	-2.07E 01	-34,334	-46,846
69.50	-2.098 01	99E 04	-34,330	-46.849
69.60	-2.02 01	01.932 01	-34,326	-46,852 -46,855
				-46 088
69.70	-1.96 01	-1.87E 01	-34,322	-00,633
69.80	-1.902 01	-1.81E 01	-34.319	-46,857
				-46 080
69.90	-1.86E 01	-1,77E 01	-34,316	-46.859
70.00	-1.812 01	-1.732 01	-34,313	-46,861
				-46.862
70.10	-1.78E 01	-1.69E 01	-34,310	
70.20	-1.75B 01	-1.66E 01	-34,308	-46.864
			-34,306	-46' 966
70.30	-1.72E 01	-1.64E 01		-00.000
70.40	-1.7JE 01	-1.62E 01	-34,305	-46.869
			-34,304	-46.871
70.50		-1.60E 01		
70.60	-1.672 01	-1.59E 01	-34,303	-46.874
70.70	-1.67£ 01		-34,303	-46.878
70.80	-1.672 01	-1.592 01	-34.304	-46,883
70.90	-1.67E 01	-1.60E 01	-34,306	-46.888
71.00	-1.68± 01	-1.61E 01	-34.310	-46,895
71.10	-1.702 01	-1.63E 01	-34.315	-46.904
				46 046
71.20	-1.738 01	-1.65E 01	-34,322	-46.915
71.30	-1.76E 01	-1.69E 01	-34,332	-46.929
71.40	-1.81E 01	-1.73E 01	-34.345	-46.947
71.50	-1.862 01	-1.78E 01	-34.363	-46.971
71.60	-1.93E 01	-1.85E 01	-34,388	-47.002
71.70	-2.01E 01	-1.93% 01	-34,423	-47.043
				-47 404
74.80	-2.118 01	-2.02E 01	-34.473	-47.101
74.90	-2.23£ 01	-2.13E 01	-34,547	-47,483 -47,304
				-117 -01
72.00	-2.37£ 01	-2.26E 01	-34,661	-07.304
72.10	-2.542 01	-2.412 01	-34.844	-47.487
				-117' 844
72.20	-2.712 01	-2.53E 01	-35,143	-47,762
72.30	-2.772 01	-2.582 04	-35,574	-48, 133
72.40	-2.66E 01	-2.50E 01	-36.016	-48.516
72.50	-2.442 01	-2.32E 01	-36,330	-48.844
		-4 49- 61		-49.013
72.60	-2.202 01	-2.12E 01IV-	382	
72.70	-1.992 01	-1.925 01	-36,638	-49.142
			DESCRIPTION OF THE PROPERTY OF	

72.80	-1.80g 01	74 01	-36,712	-49,227 -49,283 -49,321
72.90		737428 23	-36,759	"0"202
	-1.632 01	-1.588 01	-30,733	-09,203
73.00	-1.478 01	-9.432 04	-36.789	-49.321
73.10	-1.338 01	-1.308 04	-36,807	-49.346
		-11.500		
73.20	-1.202 01	-1.172 01	-36,817	-49,361
73.30	-1.081 01	-1.05E 01	-36,820	-49,368
73.40	-9.67E QQ	-9.39E 00	-36,817	-09,370
73.50	-8.541 00	-8.29E 00	-36,810	-49' 365
		A : (C : C : C : C : C : C : C : C : C :		-49,370 -49,365 -49,356
73.60	-7.422 00	-7.19E 00	-36.797	-09.356
73.70	-6.292 00	-6.08E 00	-36,700	-49.341
				40. 200
73.80	-5.108 00	-4.92E 00	-36,757	-47,330
73.90	-3.82E 00	-3.66E 00	-36,729	-49,320
78.00			-36,693	-40' 250
		-2.23E 00		-49,259
74.40	-6.20E-01	-5.12E-01	-36,649	-49.216
74.20	1.678 00	1.75E 00	-36,594	-49, 161
78.30	5.092 00	5.14E 00	-36,524	-49.092
74.40	1.182 01	1.18E 09	-36,436	-69,003 -52,031
74.50	2.12E 01	2.122 01	-39,465	-52.031
78.60	6.332 00	6.30E 00	-39,322	-51,885
			-20 445	-54' 90"
74.70	7.092-01	6.682401	-39,145	-51.704
74.80	-2.7.2 00	-2.74E 00	-38,936	-51.491
74.90	-4.832 00		-38,710	-51,491 -51,262
				-31,402
75.00	-5.998 00	-5.95E 00	-38,494	-51.045
75.10	-6.46E 00	-6.39E 00	-38,307	-50.860
				30.000
75.20	-6.472 00	-6.39E 00	-38,159	-50.716
75.30	-6.21É 00	-6.12E 00	-38,052	-50.611
75.40	-5.778 00	-5.68E 00	-37,980	-50.542
75.50	-5.16E 00	-5.08E 00	-37,941	-50,506
				-BO' BAN
75.60	-4.312 00	-4.25E 00	-37,937	-50,504
75.70	-3.042 00	-2.98E 00	-37,975	-50.542
75.80	-6.932-01	-6.52E-01	-38.072	-50.639
75.90	5.492 00	5.51E 00	-36,264	-50.831
76.00	8.7 2 00	8.69E 00	-35,460	-48.026
76.90	-3.07E 00	-3.14E 00	-35.914	-48.482
76.20	-6.362 00	-6.46E 00	-36.309	-48,880
				-40
76.30	-7.31E 00	-7.42E 00	-36,560	-49,134
76.40	-7.58E 00	-7.70E 00	-36.709	-49.285
76.50	-7.66£ 06	-7.79E 00	-36,801	-49:378
76.60	-7.71E 00	-7.85E 00	-36,861	-49.439
76.70	-7.77£ 00	-7.92E 00	-36.903	-49.480
76.80	-7.86£ 00	-8.03E 00	-36.933	-49.511
76.90	-7.99g 00	-8.17E 00	-36.956	-49.534
77.00	-8.16£ 00	-8.35E 00	-36,975	-49,553
77.10	-8.372 00	-8.58E 00	-36,991	-49.569
77.20	-8.622 30	-8.84E 00	-37.007	-49,585
77.30	-9.90E 00	-9.14E 00	-37.022	-49.600
77.40	-9.238 00	-9.48E 00	+37,038	-49,615
77.50			-37.055	-40'632
	-9.59g 00	-9.87E 00		-49.632
77.60	-1.00 01	-1.03E 01	-37.074	-49.651
77.70	-1.05E 01	-1.08E 01	-37.096	-49.672
77.80	-1.092 01	•1.13E 01	-37,121	-49.698
77.90	-1.15É 01	-1.18E 01	-37,151	-49.727
78.00	-1.218 01	-1.20E 01	-37.187	-49.763
78.10	-1.27E 01	-1.31E 01	-37.230	-49.805
78.20			-37,281	-49.855
	-1.338 01	•1.37E 01		
78.30	-1.40E 01	-4.44E 01	-37.342	-49.918
78.40	-1.472 01	-1.51E 01	-37.416	-49.992
				47,372
78.50	-1.53E 01	-1.50E 01	-37,503	-50.080
78.60	-1.6 2 01	-1.65E 01 IV-3	383-37,605	-50.183
4 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m		ADARAM AND AND A	* 11 747.4	

78.70	-4 454 04	-1 71- 07	-29 722	-80' 900
	-1.652 01	-1.71E 01	-37.722	-50,302 -30,435 -50,576 -50,719
78.80	-1.698 01	-1.7\$E 01	-37.852	-30,435
78.90	-1.722 01	-1.78E 01	-37.990	-50.576
79.00			-30 430	-50' 540
73.00	-1.721 01	-1.70E 01	-30,130	-90,719
79.10	-1.712 01	-1.77E 01	-38,264	-50.855 -50.980 -51.089 -51.182 -51.259 -81.322
79.20	-1.68E 01	-1.74E 01	-38,388	-50' 080
70.00		730778 03		
79.30	-1.658 01	#1.70E 01	-38,497	-51,089
79.40	-1.608 01	-1.65E 01	-38,590	-51,482
79.50		11 44- 41		-44 980
	-1.55E 01	-1.61E 01	-38,668	-51,257
79.60	-1.512 01	-1.56E 01	-30,733	-51,322
79.70	-1.462 01	-1.512 01	-38,786	-61 174
		71.012 01	- 34 090	
79.80	-1.428 01	-1.47% 01 -1.43% 01 -1.40% 01	-30,830	-81.374 -51,415 -51,448 -51,474 -51,494
79.90	-1.38¥ 01	-1.43E 01	-38,864	-51.448
80.00	-1.352 01	-1.402 01	-38,892	-51 474
		737722 74	-30 044	
80.10	-1.322 01	-1.37E 01	-38,914	-51,094
80.20	-1.292 01	-1.34E 01	-38,931	-\$1,509
80.30	-1.27E 01	-1.32E 01	-38,944	-51 520
		7 34 3 4 7		
90.00	-1.26E 01	•1.31E 0]	-38,953	-51,52/
80.50	-1.248 01	-1.29E 01	-38.959	-51,527 -51,531 -51,532 -51,531 -81,527
80.60	-1.238 01	-1.29E 01	-38,962	-51 692
		710254 01		7 1 3 3 2
80.70	-1.232 01	-1.28E 01	-38,963	-21,531
80.80	-1.239 01	-1.20E 01	-38,962	-51.527
80.90		-1.29E 01	-38,958	-64 694
	-1.238 01	-1.29E 01		-51,521
81.00	-1.248 01	01.50E 07	-38,953	-51,514 -51,504 -51,493 -51,491
81.10	-1.262 01	-1.31E 01	-38.947	-51 504
81.20				-6. 603
	-1.278 01	-1,332 01	-36,938	-51,093
81.30	-1.292 01	-1.35E 01	-38,929	-51.881
81.40	-1.328 01	-1.378 0]	-38,918	-51.667
01 60		37B 0	38 905	
81.50	-1,358 01	41,40E 01	-38,905	-41,001
81.60	-1.388 01	-1.43E 01	-38,691	-51,451
81.70	-1.628 01	-1.47E 01	-30,876	-51.445
				-54' 90"
81.80	-1.478 01	-1,52E 01	-38,860	-51,394
81.90	-1.528 01	-1.56E 01	-38,842	-51,372 -51,347
82.00	-1.57£ 01	-1.622 01	-38,822	-51 347
		-1-24- 11	- 20 001	
82.10	-1.638 01	-1.602 01	-38,801	-51,321
82.20	-1.709 01	-1.75E 01	-38,777	-51,292
82.30	-1.788 01	-1.02% 01	-38,752	-51.260
82.40	-1.878 01	-1.90E 01	-38,723	-51,224
82.50	-1.968 01	-1,992 01	-38,692	-51.185 -51.140
82.60	-2.07E 01	-2.09E 01	-38,656	-51 440
				-54 400
82.70	-2.2vE 01	-2.20E 01	-38,615	-51.089
82.80	-2.34 £ 01	-2.33E 01	-38,566	-51.029
82.90	-2.5 2 01	-2.47E 01	+38,505	-50.957
	"이 [ [ [ [ [ [ ] ] ] ] ] [ [ ] ] [ ] [ ]			
83.00	-2.692 01	-2.63E 01	-38,427	-50.866
83.10	-2.938 01	-2.82E 01	-38,315	-50.748
83.20	-3.222 01	-3.03E 01	-38,139	-50.583
				30,303
83.30	-3.57E 01	-3.26E 01	-37,811	-50.339
83.40	-3.85E 01	-3.48E 01	-37.172	-49,969
83.50	-3.742 01	-3.58E 01	-36.441	-49.477
83.60	-3.442 01	+3.51E 01	-36,027	-49,006
83.70	-3.202 01	-3.35E 01	-35.807	-48.666
83.80			-35.667	
	-3.018 01			-48,433
83.90	-2.88E 01	-3.072 04	-35,562	-48, 263
84.00	-2.77E 01	-2.96E 04	-35.474	-48. 126
	(하는 100 - 10		-35,393	-48,126
84.10	-2.692 01	-2.88E 01		-00,007
84.20	-2.64E 01	-2.81E 01	-35,315	-47.897
84.30	-2.60E 01	-2.77E 01	-35.236	-47.788
		790 41		-42' 499
84.40	-2.578 01	·2.732 01	-35.152	-47,678
84.50	-2.56E 01	-2.71E 01 IV-	384-35.062	-47.562

William Control

84.60 84.70 84.80 85.90 85.10 85.20 85.30 85.40 85.50 85.60	-2.55± 01 -2.56± 01 -2.56± 01 -2.57± 01 -2.57± 01 -2.56± 01 -2.50± 01 -2.43± 01 -2.43± 01 -2.27± 01 -2.18± 01	-2.66 × 01 -2.66 × 01 -2.66 × 01 -2.61 × 01 -2.61 × 01 -2.51 × 01 -2.51 × 01 -2.29 × 01 -2.29 × 01 -2.20 × 01 -2.12 × 01	-34.964 -34.853 -34.729 -34.588 -34.432 -34.260 -34.079 -33.895 -33.717 -33.551 -33.401 -33.268	-47,439 -47,305 -47,162 -47,008 -46,846 -46,680 -46,515 -46,356 -46,207 -46,069 -45,945 -45,833
85.80	-2.088 01	-2.03E 04	-33, 151	-45.732 BDSD
85.90	-2.43g 01	-2.36g 04	-33,061	-45,667
86.00	-2.808 01	-2.25E 01	-32.943	-45'.362
86.40	-2.188 01	-2.14E 04	-32.846	-45'.472
86.20	-2.07# 01	-2.042 09	-32.765	-45',394
86.30	-1.962 01	-1.952 01	-32,695	-45,325
86.40	-1.878 01	-1.87E 07	-32,634	-45,263
86.50	-1.782 01	-1.79E 01	-32,579	-45.206
86.60	-1.70± 04	-1.71E 01	-32,529	-45, 153
86.70	-1.63E 01	-1.65E 01	-32,483	-45'. 104
86.80	-1.562 01	-1.502 01	-32.440	-45.057
86.90	-1.50\$ 01	-1.53E 01	-32,399	-45.013
87.00	-1.44 01	-4.47E 01	-32,359	-44.970
87.10	-1.392 01	-1.422 01	-32,321	-44'.928
87.20	-1.342 01	-1.382 01	-32.284	-44,898
87.30	-1.309 01	-4.342 04	-32.248	-44.848
87.40	-1.261 01	-1.30E 01	-32.212	-44.808
87.50	-1.228 01	-1.26E 01	-32,177	-44.769
87.60	-1.19# 01	-1.23E 07	-32.141	-44.730
87.70	-1.168 01	-1.20E 07	-32, 106	-44.690
87.80	-1.132 01	44.17E 01	-32,070	-44.651
87.90	-1.118 03	41.152 01	-32.034	-44.612
89.00	-1.098 01	-1.132 01	-31,998	-44.572
89.10	-1.078 01	47.142 01 IV-		9DSD -44,532
30.10	-1.0/8 01	410 110 U11V-	303-311141	-44,832

88.20	-1.05# 01	-1.09E 01	-31.924	-44.491
88.30	-1.042 01	-1.00m of	-31,886	-44.449
88.40	-1.038 01	-1:07g 01	-31,847	-44'.407
88.50	-1.028 01	-1.06z 07	-31.007	-84.364
88.60	-1.028 01	-1.05E 01	-31.767	-44',320
88.70	-1.01# 01	-1.04E 01	-31.725	-44,276
88.80	-1.018 01	-1.04E 01	-31.682	-44.230
88.90	-1.012 01	-4.042 04	-31,638	-44'. 183
89.00	-1.018 01	-1.04E 01	-31.593	-44', 435
89.10	-1.018 01	-1.042 01	-31.546	-44.086
89.20	-1.028 01	-1.04E 07	-31.498	-44.036
89.30	-1.038 01	-1.042 01	-31.448	-43.984
89.40	-1.038 01	-1.04E 01	-31.397	-43'.931
89.50	-1.042 01	-1.05E 01	-31.343	-43.877
89.60	-1.05# 01	-1.00E 01	-31.288	-63.821
89.70	-1.068 01	-1.06E 01	-31.231	-43.764
89.80	-1.072 01	-1.07= 01	-31.173	-43'.706
89.90	-1.092 01	-1.08E 01	-31.112	-43.646
90.00	-1.102 01	-1.98E 01	-31.050	-43.586
90.10	-1.118 01	-1.09E 01	-30.985	-43', 523
90.20	-1.128 01	41.10E 01	-30.919	-43'.460
90.30	-1.134 01	-1.11E 01	-30.452	-43,396
90.40	-1.158 01	-1.128 07	-30.783	-43,331
90.50	-1.162 01	41.12E 01	-30.713	-43',265
90.60	-1.178 01	44.13E 07	-30.643	-43', 199
90.70	-1.172 01	-1.142 07	-30.571	-43, 133
90.80	-1.188 01	-1.14E 01	-30.499	-43'.066
90.90	-1.192 01	-1,152 07	-30.428	-43.000
91.00	-1.19E 01	-1.15E 01 IV-	386 -30.356	-42,933 BDSD

91.10	-1.200 01	-1:162 07	-30.286	-42'.868 BDSD
91.20	-1.208 01	-4:17g 09	-30,216	-42.803
97.30	-1.20# 01	-1.172 01	-30.147	-42'.738
94.60	-1.218 01	-1.17E 01	-30.080	-42'.675
91.50	-1.218 01	41.18E 07	-30,014	-42,612
91.60	-1.212 01	-9.19E 07	-29.950	-42'.551
91.70	-1.218 01	-1.19E 01	-29,888	-42'.491
91.80	-1,228 01	-1.202 01	-29,828	-42'.432
91.90	-1.228 01	-1.208 01	-29,770	-42', 375
92.00	-1.925 01	-1.212 01	-29,713	-62'.319
92.10	-1.838 01	•1.22E 01	-29,659	-42',264
92.20	-1.246 01	-1.23E 01	-29,606	-42'.211
92.30	-1,242 01	-1.24E 01	-29,555	-42', 159
1 7 7 7 7				BDSD
92.40	-1.258 01	-1.25E 01	-29.506	-42', 108 BDSD
92.50	-1.262 01	-1.278 01	-29,459	-42',058 BDSD
92.60	-1.28 01	-1.29E 01	-29,413	-42'.010 BDSD
92.70	-1.29\$ 01	-4.30E 01	-29,369	-61,963 BDSD
92.80	-1.318 01	-4.32E 01	-29.327	-41'917 BDSD
92.90	-1.332 01	-1.35E 01	-29,286	-41.872 BDSD
93.00	-1.35g 01	-1.37E 01	-29,247	-41,828
93.10	-1.382 01	-1.40E 01	-29.209	-41.786
93.20	-1.412 03	-1.43E 01	-29,172	-41.744
93.30	-1.448 01	-1.46E 01	-29,136	-41.703
93.40	-1.47\$ 01	-1.49E 01	-29,102	-41.664
93.50	-1.514 03	-1.53m 01	-29.070	-41'.625
93.60	-1.55# 01	-1.572 01	-29,039	-41,587
93.70	-1.60# 01	-1.62E 01	-29,009	-41'550
93.80	-1.648 03	-1.67E 01	-28,980	-41.514
		-₹.728 01	-28,954	BDSD
93.90	-1.706 01			BDSD
94.00	-1.762 01	-1.788 01IV-	387-28,929	-41.446

THE RESIDENCE THE RESIDENCE OF THE PERSON OF

	-44 -1			BDSD
94.10	-1.828 01	-1.84E 0	-28,906	-41.413
94.20	-2.078 01	+2.10E 0		-41.389
98.30	-2.16 01	-2.18E 0	-28.900	-41.364
94.50	-2.25E 01 -2.35# 01	-2.27% 0		-41.342
94.60	-2.678 01	+2.37E 0		-61,323
98.70	-2.608 01	-2.60% 0		-41.310 -41.302
98.80	-2.742 01	-2.74E 0	-28,972	-41.303
94.90	-2.90\$ 01	-2.908 0		-41,303 -41,318 -41,354
95.00	-3.078 01	-1.09E 0		-41.354
95.10	-3.268 01	-1.31% 01	-29,310	-41.429
95.20	-3.622 01	-1.57E 0		-41.577 -41.867 -42.361
95.30	-3.518 01	-3.85E 01		-41,867
95.40	-3.492 01	-4:02E 01		-42,361
95.60	-3.38± 01 -3.25± 01	-3.92E 05		-42,870
95.70	-3.128 01	-3.49E 0		-43.178
95.80	-3.012 01	-3,321 0		-43,334 -43,412
95.90	-2.922 01	-3.18E 01		-83.850
96.00	-2.848 01	-3.07E 01	-30.927	-43,464
96.10	-2.78E 01	-2.99E 01	-30.942	-43,464
96.20	-2.73 01	-2.91% 01	-30.947	-43.452
96.30	-2.698 01	-2.86E 01		-43,434
96.40	-2.66± 01	-2,81E 0		-43,411
96.50	-2.642 01	-2.78E 09		-43,434 -43,411 -43,383 -43,352
96.70	-2.63# 01 -2.63# 01	-2.76E 01	-30.916 -30.899	-43,352
96.80	-2.632 01	-2.74E 01		-43,278
96.90	-2.644 01	-2.732 01	-30,858	-43.237
97.00	-2.662 01	-2.732 01	-30,833	-43.192
97.10	-2.698 01	-2.74E 01	-30.805	-43.143
97.20	-2.728 01	-2.76E 04	-30.774	-43.090
97.30	-2.778 01	-1.78E 01	-30.740	-43.032
97.40	-2.822 01	-2.80E 01	-30.702	-42,970
97.50 97.60	-2.882 01	-2.83E 01	-30.658 -30.608	-42.902
97.70	-2.952 01 -3.032 01	-2.87E 01	<b>-30.549</b>	-42.828 -42.747
97.80	-3.122 01	-2.90E 01	-30.476	-42.658
97.90	-3.228 01	-2.98E 01	-30,391	-42.561
98.00	-3.342 01	#3.02E 01	-30.282	-42,455
98.10	-3.47£ 01	-1.06E 01	-30.139	-42,340
98.20	-3.602 01	-1.09E 01	-29,952	-42.216
98.30	-3.712 01	-\$ . 11E 01	-29.707	-42.086
98.40	-3.782 01	-3.13E 01	-29.409	-41,951
98.50	-3.772 01	-3.13E 01	-29.093	-41.815
98.70	-3.70E 01	-3.13E 01	-28.808 -28.582	-41.680
98.80	-3.472 01	-3.12E 01	-28.411	-41.550 -41.427
98.90	-3.368 01	-3:07E 01	-28.281	-41.312
99.00	-3.258 01	-3.05E 01	-28,182	-41.207
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99.40	-2.068 01	-2.942 01	-27.944	-40.874
99.50	-2.918 01	-2.92E 01	-27.907	-40.810
99.60	-2.872 01	-2.90E 01	-27.876	-60.752
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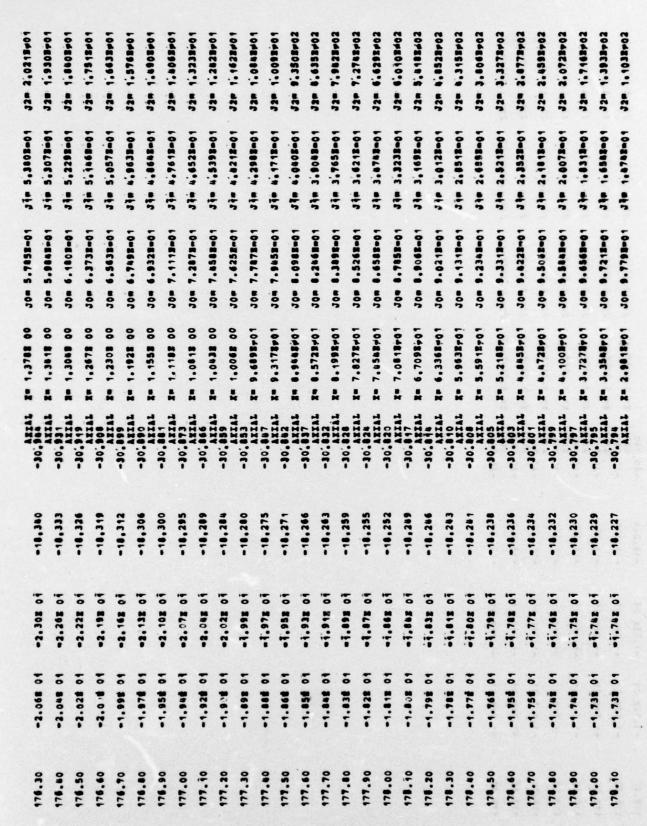
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100.10	-2.778 01	-2:89x 01	-27.779	-40.534
100.20	-2.77 01	-2.902 01	-27.769	-40.503
100.20	-2 47 61	-0.04-01	-27.763	-40 476
100.30	-2.778 01	-2.91E 01		-40'483
100.40	-2.788 01	-2,932 01	-27.760	-00,003
100.50	-2.802 01	-2.96E 01	-27.761	-00,434
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100.70	-2.848 01	-3.03E 01	-27.777	-40.412
			-27.792	-40 409
100.80	-2.872 09	-3.08E 01	-20 042	-40'442
100.90	-2.918 01	-3.13E 01	-27.813	
101.00	-2.95\$ 01	-3.19% 01	-27.841	-40.425
101.10	-2.998 01	-1:25x 01	-27.877	-40,447 -40,483 -40,534 -40,605
101.20	-3.042 01	-3.32E 09	-27,923	-40,483
101.30	-3.084 01	-3.40E 01	-27.979	-40.534
		-3.48R 01	-28.047	-40.605
101.40	-3.13# 01			-40.701
104.50	-3.482 04	-1:56x 01	-28.129	40' 906
101.60	-3.222 01	-3.64E 01	-28,224	-40,826
101.70	-3.262 01	-3.70E 01	-28.332	-40,978
101.80	-3.282 01	-3.728 01	-28,450	-61.152
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	-3.032 01	-3.22E 01	-29,225	-42.016
102.60			-29,275	-42,042
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103.20	-2.812 01	-2.93E 01	-29,423	-42,081
103.30	-2.79E 01	-2.91E 01	-29.440	-42.077
103.30			-29,455	-42,071
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103.80	-2.742 01	-2.84E 01	+29,498	-42,033
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104.00	-2.752 01	-2.85E 05	-29,515	-42.009
	-2.762 01	-2.86E 01	-29,524	-41.996
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104.40	-2.822 01	-2.91E 01	-29,555	-41,956
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108.70	-2.928 01	-3.01E 01	-29.601	-01.910
		-3.06E 01	-29,622	-41.906
104.80				-41.895
100.90	-3.018 01	-3.11E 01	-29.648	- 1 4 4 4 6
105.00	-3.06E 01	-\$, 16E 01	-29.678	-41,886
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105.20	-3.178 09	=3.30% 01	-29.758	-41,872
105.30	-3.242 01	-3.38E 01	-29.811	-41.869
		-3.472 09	-29,875	-41.870
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105,60	-3.458 01	-3,70E 01	-389 -30.044	-41,000
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105.80	-3.574 01	-4.00E 0]	-30.277	-41.957
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106.30	-3.608 01	-4:90z 01	-30.988	-43.284
106.40	-3.561 01	-4.73E 01	-31.104	-43.690
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107.00	-3.318 01	-3.87E 01	-31.517	-44.224
107.20	-3.28g 01	-3.81E 01	-31,555 -31,590	-44.233
107.30	-3.23E 01	-3.72E 01	-31.621	-44,232
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107.50	-3.818 01	-3.67E 01	-31,676	-44,231 -44,233 -44,232 -44,227 -44,221
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107.70	-3.218 01	-3.66E 01	-31,728	-44,204
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108.80	-3.51E 01	-4.46E 09	-32.213	-44.210
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109.70	-3.552 01	-8,112 01	-33.220	-46.745
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110.20	-3.318 01	-3.57E 01	-33.585	-46,755 -46,749
110.30	-3.27E 01	-3.50E 01	-33,632	-46.741
110.40	-3.23E 01	-3.45E 01	-33,673	-46,732
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110.80	-3.108 01	-3.28E 01	-33.798	-46,694
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111.50	-3.02E 01	-3.18E 01	-33.950	-46.642
111.60	-3.02£ 01	-3.19E 01IV-3	390-33.971	-46.638
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AND THE PARTY OF																																				Jime1.0628-01	Jime1, 1158-01		•
																																				JO- 1.5128-01	JOH 1.5298-01	•	
																																				X= 1.9038 01	X= 1.9028 01		
-46,637	679	799,99-	-66.663	146,678	-46,722	-46.709	-66,834	-10.01	-47.018	200	-47,275		-47,555	-47,640	-67.786	-47,065	147.040	-47,977	1000	-48,052	0000	-69.081	5000	-48,108			- 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-48,112	-60,112	10.13	-68,195					•	:	-48,585	-48.738
-33.993	-34.042	-34.069	-34.098	-34.164	-34.241	-34,333	-34.304	963.50	-34.56	-34.625	-34.760	-34.887	-34.964	-35.029	-35,149	-35,205	-35,305	35.350	-35.431	-35,468	-35.534	-35.565	-35,594	-35.649	-35,676	-35,729	-35,756	-35.813	-35.043	-35.908	-35.984	-35.982	-36.068	-36.116	-36.223		2000	-35,706	-35,743
-3.19E 04				-3-34E 04			-																														:	-2.79E 01	-2.93E 0f
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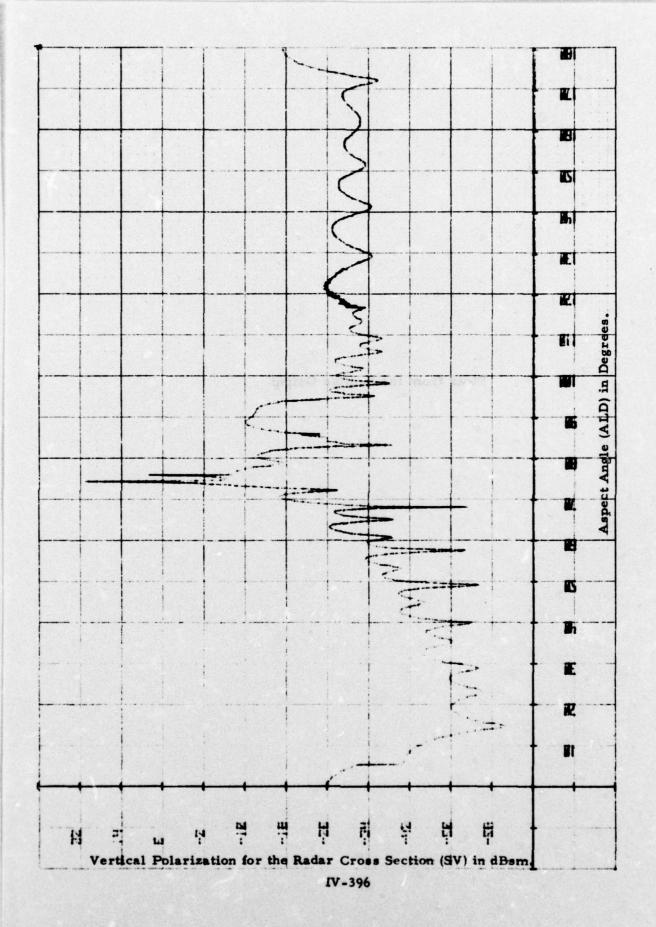
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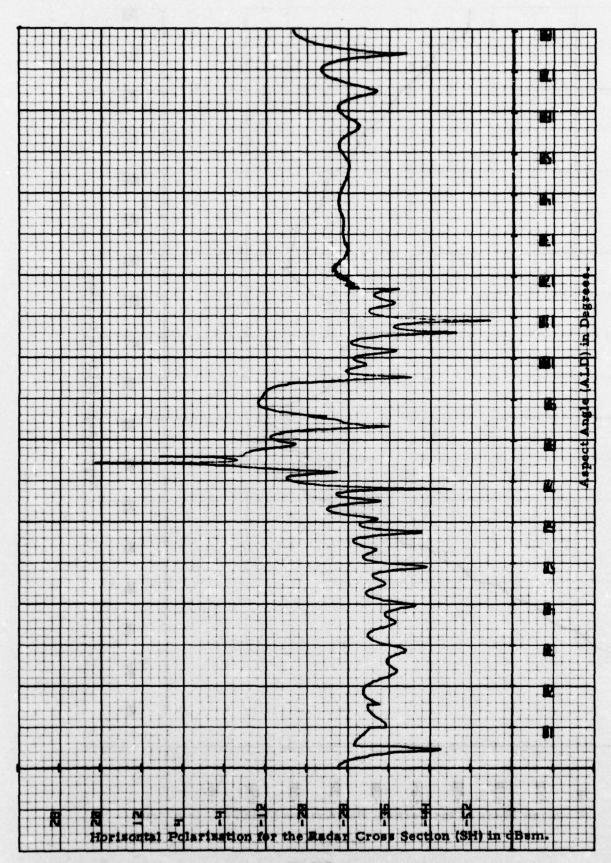


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316 1.29		19 1.11E-01	34 7.4292-03	330 5.67	Jon 3. 8188-02	110 . 8678-03	
JO. 9.831E-01		200 8-8-0-0	10-8-8-01	O.	JOE 9 . 9 6 8 6 1	10- 0 0012-01	
T= 2.608E=01		-30.790 -30.790		10 10 10 10 10 10 10 10 10 10 10 10 10 1		** 3 71# E-03	-04-11-10-1
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-18,226	-18.225	-18,224	-18,223	-18,222	-18,222	-18.222	-18.221
-4.73E 04	-1.72E 04	-1.72E 01	-1.71E 01	-1.71E 04	-1.71E 01	-1.71E 01	-4.71E 04
-4.728 04	-1.728 01	-1.71e 01 .	-1.918 01	-1.718 01	-1.716 01	-1.718 01	-1.718 01
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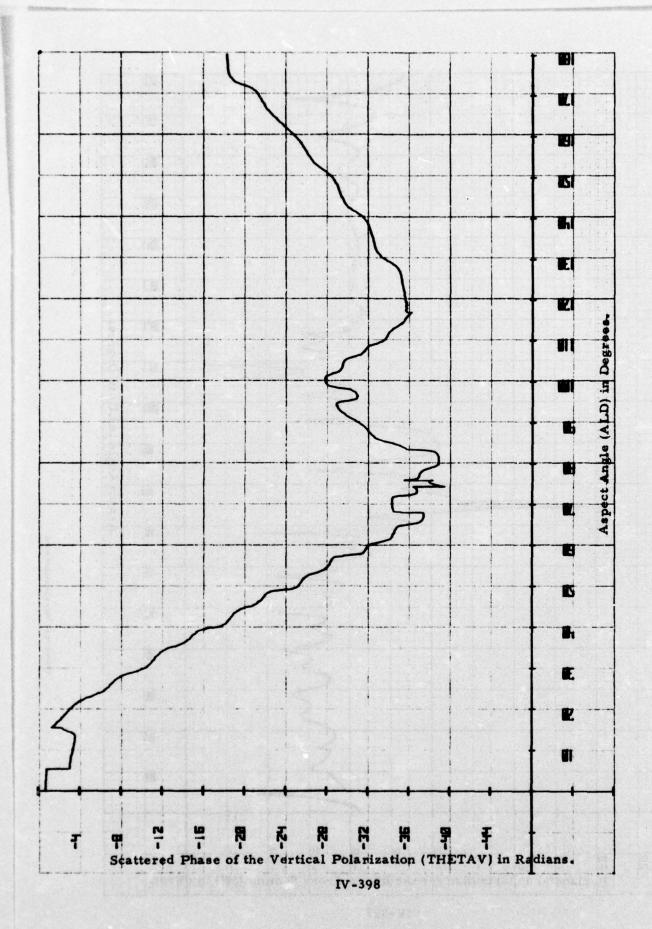
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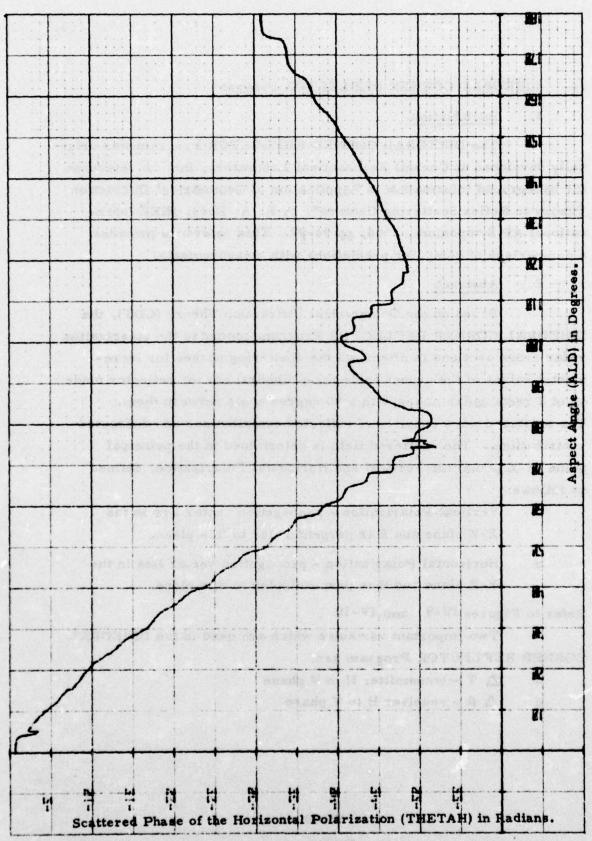
Plots from the Sample Output





IV-397





IV-399

### J. DIHEDRAL CORNER REFLECTOR Program

#### 1. Introduction

The DIHEDRAL CORNER REFLECTOR Program was originally developed at Cornell Aeronautical Laboratory, Inc. A reference for background information is "Application of Geometrical Diffraction Theory to Reflex Scattering Centers", by R. A. Ross, IEEE International AP Symposium, 1968, pp 94-99. This reference provides a comparison of computer predictions with measurements.

#### 2. Abstract

Based on the Geometrical Diffraction Theory (GDT), the DIHEDRAL CORNER REFLECTOR Program computes the polarization radar cross sections in dBsm and the scattering phases for incremental values of the aspect angle for a dihedral corner reflector made up of 2 rectangular plates with a 90 degree angle between them. The scattered wave consists of reflected contributions and diffracted contributions. The scattered field is determined in the principal plane (X-Z plane) for Vertical and Horizontal Polarization, defined as follows:

- Vertical Polarization propagation vector lies in the
   X-Z plane and E is perpendicular to this plane.
- Horizontal Polarization propagation vector lies in the
   X-Z plane and H is perpendicular to this plane.

Refer to Figures IV-9 and IV-10 .

Two important variables which are used in the DIHEDRAL CORNER REFLECTOR Program are:

- o A T transmitter H to V phase
- o AR receiver H to V phase

Key:

α<sub>i</sub> - Angle of incident plane wave

α<sub>s</sub> - Angle of radiated wave

Corner reflector angle (π/2)

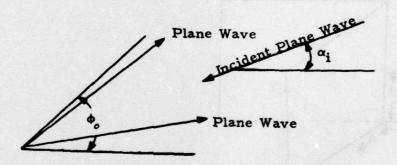


Figure IV-9 Two-Dimensional Corner Reflector

Key: α \_ aspect angle

A - half width of side

B - half height of side

 $\gamma_{\rm T}$  - transmitter orientation about incidence direction referenced to Z-X plane.

γR - receiver orientation about observation direction referenced to Z-X plane.

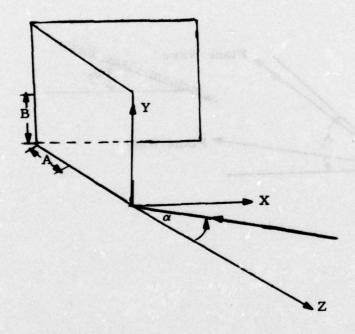


Figure IV-10 Model for Dihedral Corner Reflector

 $\Delta$  T and  $\Delta$  R represent the time phase angle relationship between the horizontal (H) and vertical (V) components of the electric (E) field. If the H and V components of the E field are equal and  $\Delta$  T = 0 degrees then the E field lies in a plane at 45 degrees to the horizontal reference. If  $\Delta$  T is not equal to zero the plane of the E field rotates as a function of time. For example, when  $\Delta$  T = 90 degrees the electromagnetic wave is circularly polarized.

The computer program can calculate single diffraction and reflected contributions from the corner reflector.

- 3. Computer Program Operating Environment
  - a. Computer
    HIS-6000
  - b. Source Language

    FORTRAN Y under GCOS.
  - c. Memory Requirement

    22K words
  - d. Typical Processing Time Required
    0.004 hrs. (14 seconds)
  - e. Peripheral Equipment Requirement

    Four disc files (file codes: 07, 08, 09, 10)
  - f. Subroutines Required
    Subroutines obtained from SXSA file:
    UPDAT
    PLTGDT

#### 4. Inputs

The inputs which are needed for the execution of the DIHEDRAL CORNER REFLECTOR Program are as follows:

A - Half width of side (inches)

B - Half height of side (inches)

CLAM - Wave length (inches)

DELAL - Increment in aspect angle (degrees)

ALMIN - Minimum aspect angle (degrees)

ALMAX - Maximum aspect angle (degrees)

AL - Initial aspect angle (degrees)

GAMT - Transmitter orientation (degrees)

GAMR - Receiver orientation (degrees)

DELT - Transmitter H to V phase (degrees)

DELR - Receiver H to V phase (degrees)

### Input Format

The above inputs are entered into the program through

NAMELIST format. The mnemonic variable INPUT is used as the

NAMELIST name. The first input card must contain a \$ followed by INPUT

(i.e., \$INPUT). After the \$INPUT the data items must follow in the format

of:

```
variable 1 name = (value),
variable 2 name = (value),
:
:
variable n name = (value) $
```

Each data item must be separated by commas. Following the last input data item a \$ must be included. Refer to the sample job stream.

By changing the above inputs the user can:

o vary the radar frequency and polarization of the transmitting and receiving antennas,

o vary the size of the dihedral corner reflector.

### 5. Output

Output from the DIHEDRAL CORNER REFLECTOR Program first contains a listing of the input data. Secondly, the output contains a list of the aspect angle (AL) at each incremented value from the input initial value to input maximum versus the following parameters:

- RLSD1 Radar cross section for diffraction component in square meters.
- RLSR1 Radar cross section for reflection component in square meters.
- RLS1 Total radar cross section in square meters.
- RLSD2 Radar cross section for diffraction component in dBsm.
- RLSR2 Radar cross section for reflection component in dBsm.
- RLS2 Total radar cross section in dBsm.
- TETAD Scattered phase for diffraction in radians.
- TETAR Scattered phase for reflection in radians.
- TETA Total scattered phase in radians.

Through a call to subroutine PLTGDT one data file is built. This file (file code 07) contains data, from variable RLS2, which can be used for producing plots.

The aspect angle (AL) is not recorded on a separate data file. The aspect angle can be easily computed for the data from RLS2 by using the initial aspect angle and the increment value of the aspect angle, both of which are recorded on the file. That is, at any Nth increment the aspect angle is equal to the initial aspect angle plus N times the increment value.

```
,65121104RADC
         IDENT
                    CLEARY, CONTI
$
         USERID
                    CLEARY$THREE
*******
         LOWLOAD
         OPTION
                    FORTRAN
         SELECT
                    CLEARY/OCOR
                    CLEARY/OXSA
         SELECT
         EXECUTE
         PRMFL
                    07, W, L, CLEARY/STORE1
         PRMFL
                    08, W, L, CLEARY/STORE2
         PRMFL
                    09, W, L, CLEARY/STORE3
         PRMFL
                    10, W, L, CLEARY/STORE4
         LIMITS
                    10,22K,,10K
         DATA
                    05
 $INPUT
 A=0.85625,
 B=1.1825,
 CLAM=0.3386757,
 DELAL=0.1,
 ALMIN=0.1,
 ALMAX=45.0,
 AL=0.1,
 GAMT=45.0,
 GAMR=45.0
 DELT=0.0,
 DELR=0.0 $
         ENDJOB
***EOF
```

Sample Job Stream for the DIHEDRAL CORNER REFLECTOR Program

	PADC 6	35/645	BATC	H JC	8
-	DER		DATE		TIME
	in the		12/5/	75	1620
PROGRAMME	R	The second	TELEPH	ONE	
CONTI			339		
RADC ENGIN			TELEPH		SYMBOL
CLEAR	Y		x3573	3	OCSA
	TA	PES AS	SIGNED		
REEL NO	WRITE	READ	DEN.		TITLE
NONE					
				_	
				1000	
READER DISC. # 0			PRINT		PUNCH
CORE SIZE	22		ACTIVIT	IES	1
PROCESSOR	TIME. 0		Farmer		
TOTAL RUN	TIME. 0	2	PRINT	·1,	'000°
	DE	CKS EX	PECTED		
NONE	RY DECK	(5	NO. OF	OMD	ECKS
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	SCIAL O	PE 0.4	BINA		10115
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HIS-6000 Batch Submittal Form

Source Listing of the

DIHEDRAL CORNER REFLECTOR Program

```
C
            PROGRAM DIHEDRAL CORNER REFLECTOR (SCOR)
                                                                                  00001000
                                                                                   00001010
C
      COMMON/NAM/YY1(2: 1), YY2(2 00), YY3(2000), YY4(2000),
                                                                                  00001015
     -KX(2000), II
                                                                                  00001017
                                                                                   00001030
      EUDF.EUDFC.EURF.EURFC.EUDC.EUDCC.SIGD.SIGR.SIG , EUCX
NAMELIST/INPUT/A.B.CLAM.DELAL.ALMIN.ALMAX.AL.GAMT,
                                                                                  00001040
                                                                                  00011045
                                                                                   06001046
     .GAMR. DELT. DELR
 1000 FORMAT(5F14.7)
                                                                                  03001050
 1001 FORMAT(1H , 7E15.9)
                                                                                  00001060
 2000 FORMAT(1H1,///4 x, "DIHEDRAL CORNER REFLECTOR INPUTS",
     *///29x. "HALF WIDTH OF SIDE(A) IN INCHES = ",F14.7.
                                                                                  00001372
                                                                                  00001074
     *///29X. "HAVE LENGTH(CLAM) IN INCHES . ",F14,7,
                                                                                  00001076
     0001078
                                                                                  00001080
                                                                                  00001082
                                                                                  00001084
                                                                                  0:0:1086
                                                                                  0 001088
-//29X, "TRANSMITTER H TO V PHASE(DELT) IN DEGREES = ",F14.7,
-//29X, "RECEIVER H TO V PHASE(DELR) IN DEGREES = ",F14.7)
2001 FORMAT(1H1,4x,"A_",4x,"RLSD1",4x,"RLSR1",5x,"RLS1",

K154 R_SD2.9H RLSR2.9H RLS2415H TETAD.
                                                                                  00001090
                                                                                  000:1092
                                                                                  0:001100
                    R_SD2.9H RLSR2.9H RLS2.15H
                                                                     TETAD.
     K454
                                                                                  03001110
 2002 FORMAT (1X.F7.2.153E9.2.3X.E9.2.2X,E9.2.2X,E9.2.
                                                                                   0:001120
                                                                                  00001.130
     •3x.0PF8.3.2x.F8.3.2x.F8.3)
                                                                                  00001132
                                                                                  00001140
                                                                                  00001150
      INPUTS VIA NAMELIST
C
                                                                                  0 001160
C
       A = HALF WIDTH OF SIDE (INCHES)
                                                                                  0.0:1170
      P = HALF HEIGHT OF SIDE (INCHES)
CLAM = WAVE LENGHT (INCHES)
                                                                                  0.001180
                                                                                  00001190
       DELAL = INCREMENT IN ASPECT ANGLE (DEGREES)
                                                                                  00001210
      ALMIN = HINIMUM ASPECT ANGLE (DEGREES)
                                                                                  0.001550
       ALMAX . MAXIMUM ASPECT ANGLE (DEGREES)
       AL = ASPECT ANGLE (DEGREES)
                                                                                  0 001240
C
      GAMT = TRANSMITTER ORIENTATION (DEGREES)

GAMR = RECEIVER DRIENTATION (DEGREES)

DELT = TRANSMITTER H TO V PHASE (DEGREES)

DELR = RECEIVER H TO V PHASE (DEGREES)
C
                                                                                  0 0 1270
                                                                                  0.0:1280
C
                                                                                  0 001290
    1 READ(05, INPUT, END=10.)
                                                                                  0:001410
      WRITE(6,2707)4,3,CLAM, DELAL, ALMIN, ALMAX, AL, GAMT, GAMR,
                                                                                  000.142
     .DELT. DELY
                                                                                  0 0 1460
C
                                                                                  0 001470
       11 = 0
       TETAD =
       TETAR =
                                                                                  0 0:1500
       TETA = 9.
      RH202= 0.
                                                                                  0 001510
      RHOR2= 6.
                                                                                  0-001520
```

```
RHOZ = 0.
RELC1 = .0254+. 254
                                                                                                                                                                                                                                                                                                                                                                                                            03001530
                                                                                                                                                                                 00001540
00001550
                                  #1=3.14159265 U0001550

EK = 2.-P1/CLA4 00001560

BTR = P1/180. 00001570

#TD = 180./P1 00001580
                                                                                                                                                                                  00001570
00001580
00001590
                                  BAMY = GAMY-DTR

BAMR = GAMR-DTR

DELT = DELT-DTR
                                                                                                                                                                                                                                                                                                                                                                                                                                    00001600
                           DELT = DELTODT

DELA = DELALOBTR

ALMIN = ALMINODT

ALMIN = ALMANODT

AL = ALODTR

CO001650

AL = ALODTR

CO001660

AL = ALODTR

CO001660

ANPID = GIN(PI/4.)

CO001660

ENPID = CMPLX(CSPIG, SNPIG)

CSPIH = COS(PI/2.)

ENPIH = SIN(PI/2.)

ENPIH = SIN(PI/2.)

ENPIH = COS(PI/2.)

ENPIH = COS(PI/2.)

ENDEL = COS(DELTODELR)

ENDEL = COS(DELTODELR)

ENDEL = COS(DELTODEL)

ENDEL = CMPLX(CSDEL, SNDEL)

ENDEL = CMPLX(CSDEL, SND
                                                                                                                                                                                        0001610
0001620
0001630
                                IT = II+1

CAS = CA+SIN(A_)

CAC = CA+COS(A_)

CAC = COS(CAS)

CAC = C
                10 II = II+1
EAS = CA-SIN(A_)
                                   EJDFC = CONJG(EJDF)
                                                                                                                                                                                                                                                                                                                                                                                                                                         07001750
                                   BIGD = EJDF+EJDFC
                                                                                                                                                                                                                                                                                                                                                                                                                                      00001960
                                   RLSD = REAL(SI3D)

IF (RLSD . GE . 0.000001) GO TO 11

RLSD = 0.700001
                                                                                                                                                                                                                                                                                                                                                                                                                                      00001980
                                  RESD = 0.700001
BUDF = (1.000001 . 0.0)
                                                                                                                                                                                                                                                                                                                                                                                                                                         00001990
                                                                                                                                                                                                                                                                                                                                                                                                                                         0.002000
                11 BONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                         01002010
                                   RHOD1 = ATAN2(AIMAG(EJDF), REAL(EJDF))
                                                                                                                                                                                                                                                                                                                                                                                                                                         00002020
                                   CALL UPDAT (RHOD1, RHOD2, PI, TETAD)
                                                                                                                                                                                                                                                                                                                                                                                                                                         02002030
C
                                                                                                                                                                                                                                                                                                                                                                                                                                         01002040
```

ENO

0 0 2540

Sample Input for the
DIHEDRAL CORNER REFLECTOR Program as Output

## DIHEDRAL CORNER REFLECTOR: BNRUTS

HALF WIDTH OF SIDE(A) IN INCHES = 0.8562900

HALF HEIGHT OF SIDE(B) IN INCHES . 171829000

HAVE LENGTH (CLAM) IN INCHES = 0.3386757

INCREMENT IN ASPECT ANGLE(DELAL) IN DEGREES . 0.100060

MINIMUM ASPECT ANGLE (ALMIN) IN DEGREES . 0.100000

MAXIMUM ASPECT ANGLE(ALMAX) IN DEGREES . 45.000000

INITIAL ASPECT ANGLE(AL) IN DEGREES = 0,1000000

TRANSMITTER ORIENTATION(GAMT) IN DEGREES # 45:0000000

RECEIVER ORIENTATION (GAMR) IN DEGREES = 45.0000000

TRANSMITTER H TO W PHASE(DELT) IN DEGREES = 0.

RECEIVER H TO V PMASESDELR) IN DEGREES . O.

Sample Output for the
DIHEDRAL CORNER REFLECTOR Program

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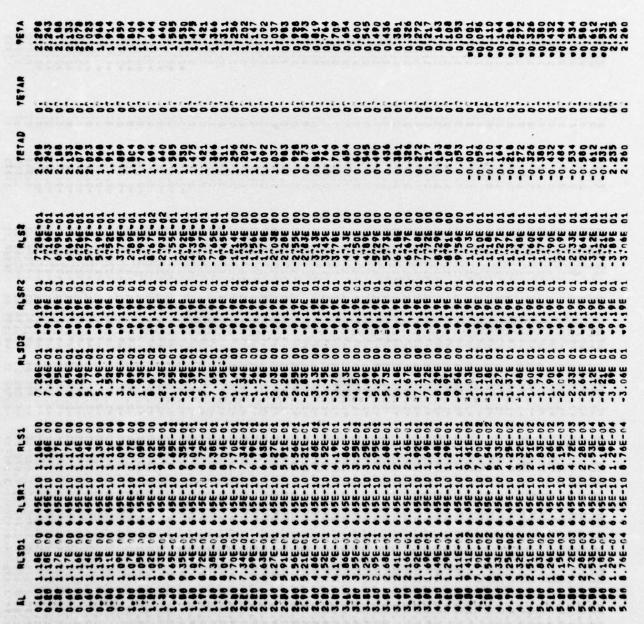
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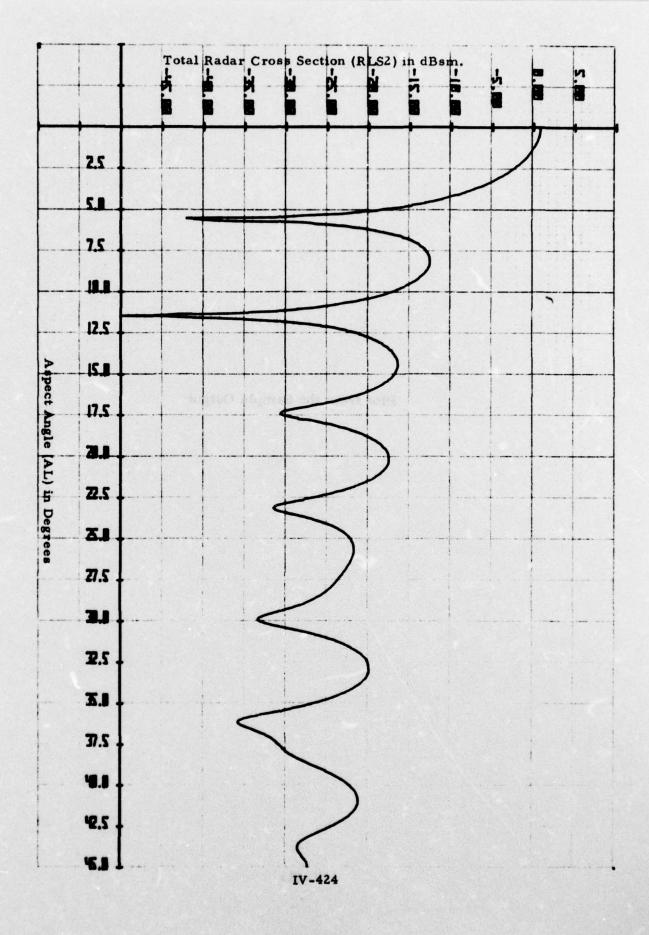
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# K. Common Subroutines and Data Files

# 1. Subroutine File SXSA

# a. Abstract

The subroutines common to two or more of the cross section programs have been stored in two separate files, named SXSA and SXSB. Contained in the subroutine file SXSA are the four FORTRAN subroutines UPDAT, BESS, GAM, and PLTGDT. Two or more of these routines are used in the execution of all the radar cross section programs. Refer to Figure IV-11 for a cross reference of what routines are used by what programs.

# b. Program Description

# (1) Subroutine BESS

The subroutine BESS computes the value of the Bessel function which is used in calculating the GDT coefficients for illuminated scattering centers. The calling sequence is as follows:

CALL BESS (O, Z, BS)

where

O - is the order of the Bessel function

Z - argument of the Bessel function

BS - the computed value of the Bessel function

## (2) Subroutine UPDAT

The subroutine UPDAT updates the computation of phase, such that the phase is cumulative rather than of module 2 \*.

# (3) Subroutine GAM

The subroutine GAM computes the value of the Gamma function. (GAM is called by the subroutine BESS). The calling sequence is as follows:

CALL GAM(X,G)

where

X - argument for the Gamma function

G - value of the Gamma function

# (4) Subroutine PLTGDT

The subroutine PLTGDT arranges the cross sections in dBsm and cumulative scattered phase in radians in increments of the aspect angle to be output onto four separate files (07, 08, 09, 10).

- o File 07 contains the vertical radar cross section with respect to the increments of aspect angle.
- o File 08 contains the horizontal radar cross section with respect to the increments of aspect angle.
- o File 09 contains the scattered phase for the vertical polarization with respect to increments of aspect angle.
- o File 10 contains the scattered phase for the horizontal polarization with respect to the increments of the aspect angle.

Each of the above files contain the following record formats. The first record is in the format 4(1X, E14.7), 13I and contains the maximum and minimum values of the data points on the records following, the minimum aspect angle, the increment of the aspect angle, and the total number of data points which follow. Following the first record of each file are records each containing five sequential data points in the format 5(1X, E14.7). The data points are recorded in the order in which they were computed.

From the above files punched data cards can be obtained which can be used as input to the Hewlett Packard 9820A Calculator for plotting.

	SXSA	SXSB	
	UPDAT BESS GAM PLTGDT	SPLN46 TAN	
CYLINDER Program	xxxx		
FRUSTUM Program	xxxx	x	
FRUSTUM-CYLINDER Program	xxxx	x	
CYLINDER-FLARE Program	xxxx	хх	
CONE Program	xxxx	x	
CONE-CYLINDER Program	xxxx	x	
HEMISPHERE- CYLINDER Program	хх		
RADAR SCATTER FROM MISSILE Program	xxxx		
CORNER-REFLECTOR Program	x x		

In the above table are the radar cross section programs with a cross reference to the files and subroutines needed for their execution.

Figure IV-11 Subroutine Files SXSA and SXSB

		20	
##267-12.595) ########			
Markey			
CONTRACTOR CONTRACTOR		1 2 2	
outines	SA Subro	the SXS	Source Listings
TAILURE TAILURE		77 17	
metto: 9 metto: 9			
CONE-CTLOCKE			
SANTAL PROGRAM			
METERSON RACK TORK MEETING TORY			
BONDARTON CONTROL			

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SEXE has AFRE SAFF Sales works 11-VI was all

#64.93 -- C

# 3046T 01 10-06-75 15.344

SUBROUTINE GAM(X4G)	00001000
B=+0,35868343g-1	00001010
#=S*X=0.193527#18	00001020
8=5*X+0.4821gg3g4	00001030
\$=\$*X=0.75670407	00001040
8=5*X+0.918206857	00001050
\$=\$*X=0.897056937	00001060
\$=5*X+0.988205891	00001070
\$=5*X=0.5771g1652	00001080
0=5*X+1.0	00001000
RETURN	00001100
BND	00001110

# 30537 01 10-06-75 15.345

SUBROUTINE UPDAT(R1,R2,P1,THETA)

2=R1-R2

IF (Z.GT.P1) Z=Z-2.\*P1

IF (Z.LT.(-P1)) Z=Z+2.\*P1

THETA=THETA+Z

R2=R1

RETURN

END

### 30597 01 10-06-75 15.357 SUBROUTINE BESS(0, Z, RS) IF(Z,NE,J,0) GJ TO 40 IF(0,EQ,J,0) 85=1.J 00001200 00001220 1F(0.NE.U.0) 85=0.0 00001230 00001240 80 TO 100 00001250 40 SMALL=1.UE-8 00001260 1F(0)100,31,32 00001270 31 BS\*1.0 AKV=0.0 00001280 03001290 A1=1.0 \$2 AKV=AKV+1.0 A1\*A1\*(-1.0)\*(Z/2.U)\*\*2/(AKV\*AKV) 00001310 85.85\*A1 00001320 F(DABS(A1/BS)-SMALL)51,52,52 00001330 51 60 TO 100 32 A=0 00001340 00001350 00001360 N=0 13 1F(A-1.0)10.12.12 00001370 00001380 00001390 00001400 00001410 00001420 12 A=A-1.0 N=V+1 GO TO 13 10 ARGEA CALL GAM(ARG,G) 00001430 IF(N)190,76,75 00001440 75 00 26 NV=1,N 00001450 Ad=NV-1 00001460 00001470 IF (A2.GT.1,0E-38) GO TO 26 99=0.0 00001490 60 TO 10J 26 A2=A2+(Z/2,0)/(0-AJ) 00001500 76 A2=A2+(Z/2.0)++ARG/G 00001510 Bg=A2 00001520 AKV=0.0 00001530 00001540 41:1.0 21 AKV=AKV+1.0 00001550 A1=A1+(-1.0)+(Z/2.))++2/(AKV+(AKV+0)) 07001560 00001570 ADD=A1-A2 00001580 BS=BS+ADD IF(85.EQ.1.0) 30 TO 21 00001590 00001600 TEST=DABS(ADD/35) 00001610 IFITEST-SMALL)1 1,21,21 100 RETURN 00001520 00001630 END

```
SUBROUTINE PLTGDT
                                                                                         00001640
                                                                                         00001650
        SUBROUTINE PLIGHT REARRANGES CROSS SECTION DATA TO BE
       OUTPUT ON TO PUNCHED CARDS.
COMMON/NAM/YY1(20 ).YY2(2000).YY3(2000),YY4(2000),
                                                                                         00001660
C
                                                                                         00001673
      *XX(2000).II
                                                                                         00001680
       YMAX1=YY1(1)
                                                                                         00001690
       YMAX2=YY2(1)
                                                                                         00001700
                                                                                         00001710
       TMAX 3=YY 3 (1)
       YMAX4=YY4(1)
                                                                                         00001720
                                                                                         00001730
       YMIN 1=YMAX 1
                                                                                         00001740
       YMIN2=YMAX2
       YMIN3=YMAX3
                                                                                         00001750
                                                                                         00001750
       YMIN4=YMAX4
                                                                                         00001770
       XMIN=XX(1)
                                                                                         00001780
       XINC=ABS(XX(2)-XX(1))
                                                                                         00001790
       NPTS=II
                                                                                         00001800
 5001 FORMAT(4(1x.E14.7).1x.I13.1x)
                                                                                         00001810
       DO 1000 I=1.II
       IF(YY1(I).GT.YMAX1) YMAX1=YY1(I)
                                                                                         00001820
                                                                                         00001830
       IF(YYZ(I).GT.YMAX2) YMAX2=YYZ(I)
                                                                                         00001840
       IF(YY3(I).GT.YMAX3) YMAX3=YY3(I)
       IF(YY4(I).GT.YMAX4) YMAX4=YY4(I)
IF(YY1(I).LT.YMIN1) YMIN1=YY1(I)
IF(YY2(I).LT.YMIN2) YMIN2=YY2(I)
                                                                                         00001850
                                                                                         00001860
                                                                                         00001870
       IF(YY3(I).LT.YHIN3) YMIN3=YY3(I)
                                                                                         00001880
                                                                                         00001890
       IF(YY4(I).LT.YMIN4) YHIN4=YY4(I)
                                                                                         00001900
       IF(XX(I).LT.XMIN' XMIN=XX(I)
1000 CONTINUE
WRITE(07,5001) YMAX1,YMIN1,XMIN,XINC,NPTS
WRITE(08,5001) YMAX2,YMIN2,XMIN,XINC,NPTS
                                                                                         00001910
                                                                                         00001930
       WRITE(09.5001) YMAX3, YMIN3, XMIN, XINC, NPTS WRITE(10.5001) YMAX4, YMIN4, XMIN, XINC, NPTS
                                                                                         00001940
                                                                                         00001950
                                                                                         00001960
       J=1
                                                                                         00001970
       K=5
                                                                                         00001980
       DO 100 I=1, II, 5
                                                                                         00001990
       WRITE(07.5000) (YY1(L),L=J,K)
WRITE(08.5000) (YY2(L),L=J,K)
                                                                                         00002000
                                                                                         00002010
       WRITE(09.5000) (YY3(L),L=J.K)
                                                                                         00002020
       WRITE(10.5000) (YY4(L).L=J.K)
 5000 FORMAT(5(1x, 814,7))
                                                                                      00002040
       J=J+5
                                                                                         00002050
       K=K+5
                                                                                         00002060
  100 CONTINUE
                                                                                         00002070
       RETURN
       END
                                                                                       00002080
```

# 2. Subroutine File SXSB

# a. Abstract

Contained in the subroutine file SXSB is the FORTRAN subroutine SPLN46 and the FORTRAN function TAN. These are used in the execution of some of the radar cross section programs. Again, refer to Figure IV-11.

# b. Program Description

# (1) Subroutine SPLN46

The subroutine SPLN46 smooths data (i.e., fits a curve to data points) through the broadside specular on a frustum using a "spline method". The calling sequence is as follows:

CALL SPLN46(IND, XP, YP, X, Y, NP, C1,C2, C3)

where

IND - if =0, calculates C1, C2, C3 =1, uses C1, C2, C3, as stored

XP - input X value

YP - output Y value

X, Y - input ordered pairs

NP - number of ordered pairs (points)

C1, C2, C3 - coefficients

# (2) Function TAN(X)

The function TAN computes the natural trigonometric tangent for the angle X in radians.

Source Listings of the SXSB Subroutines

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	FUNCTION TAN(X)	00001000
	DOUBLE PRECISION TANK	00001010
	IF (DCOS(X)) 10,5,10	00001020
5	IF (DSIN(X)) 6.848	00001030
6	TANX=-1.0D+30	00001040
	GO TO 20	00001050
	TANX=1'.0p+30	00001060
	GO TO 20	00001070
10	TANX=DSIN(X)/DCOS(X)	00001080
	TAN - TANX	00001000
	RETURN	00001150
	END	00001110

```
SUBROUTINE SPLN46(IND, XP, YF,
                                                    X.Y.NP.C1,C2,C3)
                                                                              00001120
                                                                              00001130
     THIS ROUTINE HOLDS FOR UNEQUALLY SPACED POINTS NO SIMSOL NEEDEDOOOO1140
C
                =0 CALCULATES C1.C2.C3
                                                                              00001150
                                                                              00001160
                =1 USES C1.c2.c3. IN MACHINE
C
      XP
               = INPUT X
                                                                              00001170
C
                                                                              00001180
               = QUTPUT Y
C
      YP
               = DERIVATIVE OF Y W.R.T. X
                                                                              00001190
      YPDER
CC
             * NUMBER OF ORDERED PAIRS
                                                                              00001200
      X.Y
      NP
              = NUMBER OF POINTS
                                                                              00001210
C
      C1.C2.C3= COEFF.
                                                                              00001220
      REAL C1(1),C2(1),C3(1),X(1),Y(1)
                                                                              00001230
                                                                              00001240
      IF(IND.EQ. 1) GO TO 50
      NPM 1=NP-1
                                                                              00001250
      NPM2 = NP-2
                                                                              00001260
      C1(1)=(Y(2)-Y(1))/(X(2)-X(1))
                                                                              00001270
                                                                              00001280
      C1(NP) = (Y(NP) - Y(NPM1))/(X(NP) - X(NPM1))
      C2(1)=0.
                                                                              00001290
                                                                              00001300
      C2(2)=1.
                                                                              00001310
      C3(1)=C1(1)
      C3(2)=0.
                                                                              00001320
                                                                              00001330
      DO 5 I=1.NPM2
      Z_1 = (X(I+2) - X(I+1))/(X(I+1) - X(I))
                                                                              00001340
      z_{2=2.*(x_{\{1+2\}-x_{\{1\}\}/(x_{\{1+1\}-x_{\{1\}\}})}}}^{(x_{\{1+1\}-x_{\{1\}})}}
      C2(I+2)=-Z1*C2(I1-Z2*C2(I+1)
C3(I+2)=-Z1*C3(I)-Z2*C3(I+1)+3.*23
                                                                              00001370
                                                                              00001380
    5 CONTINUE
                                                                              00001390
                                                                              00001400
      C1(2)=(C1(NP)-C3(NP))/C2(NF)
                                                                              00001410
      DO 10 I=3, NPH 1
                                                                              00001420
      C1(I)=C2(I)*C1(2)+C3(I)
                                                                              00001430
   10 CONTINUE
      DO 40 I=1, NPM1
CC4 = Y(I+1) - Y(I)
                                                                              00001440
                                                                              00001450
      DELX=X(I+1)-X(I)
                                                                              00001460
                                                                              00001470
      DELX2=DELX*DELX
      DELX3=DELX2*DELX
                                                                              00001480
                                                                              00001490
      C2(I) = 3.*CC4/DELY2 - (C1(I+1)+2.*C1(I))/DELX
                                                                              00001500
      C3(I) = -2.*CC4/DELX3 + (C1(I+1)+C1(I))/DELX2
   40 CONTINUE
                                                                              00001510
                                                                              00001520
   50 CONTINUE
                                                                              00001530
       J = 0
                                                                              00001540
   60 J=J+1
                                                                              00001550
      IF(J.GT.NP) GO TO 70
      IF(XP.GT. X(J)) GO TO 60
                                                                              00001560
                                                                              00001570
      J = J-1
                                                                              00001580
      IF(J.EQ.0) GO TO 80
                                                                              00001590
      GO TO 90
                                                                              00001600
   70 J = NP
                                                                              00001610
      GO TO 90
   80 J = 1
                                                                              00001620
                                                                              00001630
   90 JF = J
```

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DELTX = XP-X(JF)

YP = Y(JF) + C1(JF)\*DELTX+ C2(JF)\*DELTX\*\*2+ C3(JF)\*DELTX\*\*3

00001660

END

00001672

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